





to them

Reuben

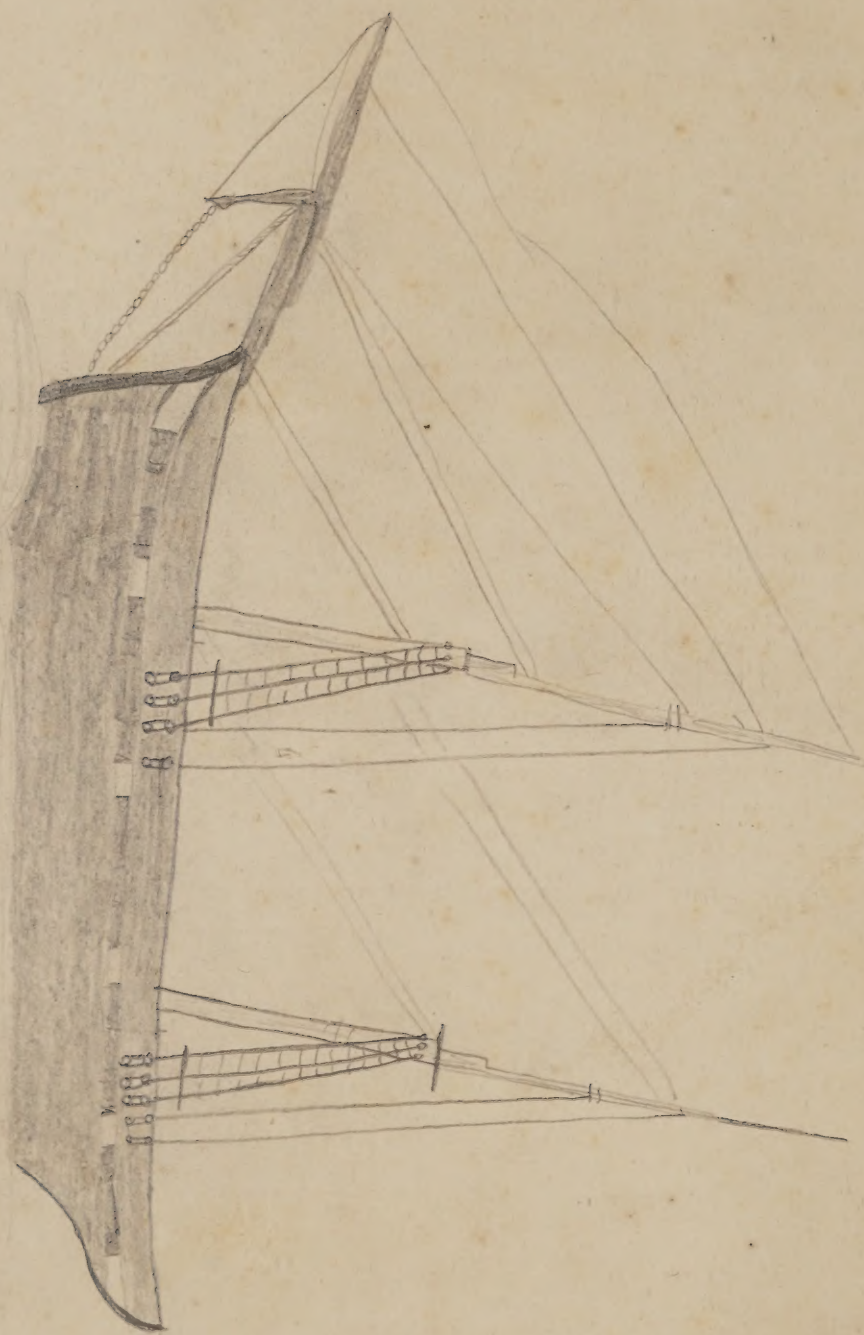
Reuben B. Marks of Dartmouth Mass

to

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Plane Sailing.

Questions to exercise the learner (Bowditch 58 page)

Question 1st. A ship in $2^{\circ}10'$ S. lat. Sails N. by E. 89 leagues. What latitude is she in & what dep. has she made
 Course N. by E. distance 89 leagues } Lat left $2^{\circ}10' S.$
 Dist $257^{\frac{3}{4}}$ miles gives } Diff of Lat. $4^{\circ}22' N$
 $2^{\circ}12'$ diff of lat. and 52.1 dep. } Lat in $2^{\circ}12' N$
 $4^{\circ}22'$ diff Lat ~ Dep $17^{\frac{1}{2}}/36/100$ leagues }

In this case the ship crossed the Equator and is in North latitude. - from $2^{\circ}10'$ she sailed $4^{\circ}22' N.$ balance $2^{\circ}12' N$

Question 2^d. A ship sails S. S. W. from a port in $41^{\circ}30'$ North, there by Observation is in $36^{\circ}57'$ North latitude. What dist has she run & dep. made?
 Co. S. S. W. Diff of lat. $273'$ gives a } Latitude left $41^{\circ}30' N.$
 dist of 295.5 . and dep 113.1 . } Latitude by Obs $36^{\circ}57' N.$

In this case I took the No. below } Dep - $4^{\circ}33'$
 and the one above the diff of lat. added } Diff of Lat - 273 miles
 run together and took the half as the distance

Question 3^d

A ship sails S. S. W. $\frac{1}{2}$ W. from $2^{\circ}30' S.$ till her dep. is 59 leagues. What distance has she sailed and what distance has she sailed and what latitude is she in?
 Co. S. S. W. $\frac{1}{2}$ W. Dep 59 leagues } Lat. left $2^{\circ}30' S.$
 } $2^{\frac{3}{4}}$ $177^{\frac{3}{4}}$ miles gives } Diff of lat. $5^{\circ}31' S.$
 165.8 Diff of Lat and $188^{\frac{1}{2}}$ distance } Latitude in $8^{\circ}01' S$
 331.6
 $5.31.6/10$ } $3^{\frac{1}{2}}$ 370
 $125.33/100$ Leagues.

When the Numbers are too large to be found in the Tables divide by any convenient Number the less the No. the better

Question 4th

If a Ship sails S.S.W. from a Port in $41.30'$ North and till her dep^t is 100 Miles. What is her distance sailed and Latⁿ in?

Question 4th by Bowditch

If a ship sails 300 Southward from $21.59'S$ Latitude till by Observation she is in $24.49'S$ latitude. What is her course and departure?

Lat. Left -	$21.59'S$	}	No. gives a Course of 62° & dep ^t 158.9 W.
Lat by Obs ⁿ	$24.49'S$		
	2.50		
	170 Miles		Departure 317.8

Question 5th Suppose a ship sails 354' North Easterly from $2.09'$ South latitude until her departure is 150 Miles. What latitude has she arrived in & what course did she steer?

Dist 354'	Dept 150'	}	Lat Left $2.09'S$
177	75		These No. gives a Course of $N. 25^\circ E.$ and dep ^t 150
			Lat. Made $5.21'S$
			Lat. in $3.12'S$
			of latitude of 160.4
			$60 \over 32.0.8$
			$5.20.8$

The ship in this case crosses the equator and arrived in a latitude of a different name having sailed North 25° East from $2.09'S$ and $3.12'$ Miles North of the equator

Question 6th Sailing between The North and West from a port in $1^{\circ} 59'$ South lat and then arriving in an other in $4^{\circ} 08'$ N. latitude which is 209 Miles West of the first port What course did she steer and what was the distance run?

Dep. 209. Diff of Lat. $3^{\circ} 57'$ } Lat left $1^{\circ} 59'$ S
 104.5 183.5 } Lat 2^d port $4^{\circ} 08'$ N.
 These No. give a Co. of $N. 30^{\circ} W.$ nearly } $6^{\circ} 07'$
 + 211 dist this Mult. by 2 is 422 the dist } Diff Lat. $3^{\circ} 57'$

Question 7th Four days ago we were in lat $3^{\circ} 25' S$ and have sailed due N.W. by W. at the rate of 8 miles p. hour. I demand the latitude in & dep. from the Mer?

Four days is 96 hours & 8 knots gives 768 Miles
 Lat Left $3^{\circ} 25' S.$ } Co. N.W. by W. dist 768
 Diff of Lat. $10^{\circ} 38' N.$ } 192 this course
 Lat in $7^{\circ} 13.4'' N.$ } $\frac{1}{4}^{\circ}$ dist 192 gives 159.6 diff of Latitude
 } and 105.7 dep $3^{\circ} 50' 63.4''$
 Dep $4^{\circ} 26.8'$ } $10^{\circ} 38'$ Diff of Lat.

In this case as the distance was such as to loose No fraction by dividing it by 4 we obtain the diff. of latitude & departure almost exact.

The Latitude by Log^s is $7^{\circ} 14' N$
 By the Tables of diff of Lat or $7^{\circ} 13.4'' N$
 varying only 10° th from the Answer by Logarithms

Parallel Sailing

Question for exercise

Question 1st. A Ship in latitude $32^{\circ} 00'$ North sails due East till her departure is $325.6 \frac{1}{10}$ miles. What is her difference of longitude?

With the Co. 32° . and dep. $325.6 \frac{1}{10}$ being too large to be found in the Tables I take the $\frac{1}{2} = 162.8$ This found in the latitude Col. and opposite in the dist. Col. stands 192 This multiplied by 2 is 384 or 6.24

Answer 6.24 diff. Long.

Question 1st from Bowditch. the reverse of the above. A Ship ⁱⁿ the lat of $32^{\circ} 00'$ sails due East till her difference of longitude is 384 miles. What dist. did she sail?

Course 32° . Diff. of Long 384' half is 192 This found in the dist. Col. under 32° . Opposite in the latitude Col. stands 162.8 Multiplied by 2 is $325.6 \frac{1}{10}$ the distance sailed. and Answer $325.6 \frac{1}{10}$ Miles

Question 2nd. A Ship from lat $53^{\circ} 36' S$. sails due. longitude 10.18 East sails due West 236 Miles. What long. has she arrived in?

The lat is $53^{\circ} 36'$. I use as a course

53° - half the dep 118 gives 196

54° - half the dep 118 gives 201

$60 \overline{) 397}$
 $\underline{6.37}$ West.

Long. left 10.18 East
Diff of Long 6.37 West
Longitude in 3.41 East

Question 3^d

If 2 Ships in the latitude of 44.30° North distant 215 Miles should sail directly South until they arrived in the latitude of 32° N. What distance will they then be from each other.
 Pole. First take the distance they are apart in latitude 44.30° and turn it into Δ longitude by using 44° and 45° as a course. Then take the longitude thus found (in 44°) down into the latitude of 32° . And turn the longitude into departure or distance which is the same. being due East West from each other.

In lat. 44 and $\frac{1}{2}$ dist 108 - gives 150
 Thus In lat. 45 do do 108 do 153

As I use but half the dist, the sum is diff. of Long 303 = half is 151.5

Then take half the diff. of long 151.5 and 32° . as a course and find the nearest corresponding number in the distance column opposite in the lat. Col. stands 128.1 Thus multiplied by 2 gives the answer 256.2.

Question 4th

A ship having run due East for 3 days at the rate of 5 knots an hour finds she has altered her longitude $8^{\circ} 16'$. What Parallel of latitude did she sail in?

She altered her long $8^{\circ} 16'$ - In 3 days or 72 hours by sailing 5 $\frac{1}{2}$ per hour

Long made $\frac{50}{2}$	-	5	dist sailed
490		360	
$\frac{1}{2}$ Long 248		$\frac{1}{2}$ dist 180	

With 248 ($\frac{1}{2}$ the long) found in the dist. Col. and 180 ($\frac{1}{2}$ the dist. sailed) in the lat. Col. are found to agree nearest under a Course of 40° & 41°

Therefore the Course or Parallel of latitude the ship sailed in was 40.30° either North or South.

Middle Latitude Sailing.

Questions for Exercise.

Question 1st What is the bearing and distance between two places. One in the latitude of $37^{\circ}55'$ and long, $54.23'$ West. The other in lat of $32^{\circ}38'$ North and longitude of $17^{\circ}05'$ West?

Lat. of the 1st Port $37^{\circ}55' N.$ - Long $54.23' W.$ - Lat $37.55 N$
 Lat. of 2^d do $32.38 N.$ 2^d Long $17.05 W.$ Lat $32.38 N$
 5.17 37.18 Sum 70.33
 Differen of Lat. 31.7 miles. - Diff Long 22.38 - Midd. 35.16

With the Middle lat. 35° (the nearest degree) I turn the diff of longitude into departure. Thus, first I divide the difference of longitude by 10. 22.38 , this I use as 224 as it wants but $2/10$ of that No. I enter Table 2^d and under 35° the mid lat. and opposite 224 in the dist col. stands 183.5 in the lat col. this is $1/10$ of the dep. Then With $1/10$ the diff of lat 31.7 . and $1/10$ the dep 183.5 I go to the Table again and find those Nos to agree nearest over a course of 80° and opposite the distance of 186.10 . This multiplied by 10 is 1860 the dist

Course 80° East or West as the case may be
And the Distance 1860 Miles

Differing 6 Miles from the Ans. by Logar.
 owing to the use of $2/10$ th more than the longitude actually was which should have been calculated in the departure or at the close of the work

Question 2^d What is the direct course and distance, from a place in latitude of $36^{\circ}55'S.$ and longitude of 20° East. To an other Port in the lat of $32.38 S$ and longitude of 8.54 West?

Lat. of 1st Port $36.55 S.$ - Long $20.00 E.$ 1 Lat $36.55 S.$
 Lat. of 2nd Port $32.38 S.$ do $8.54 W.$ 2 Lat $32.38 S.$

Diff of Lat. 4.17 Diff Long 11.46 Med Lat 34.46
 Dip of Lat. 25.7 Diff Long 173.4

Then with the Med. Lat. as a course 35° (nearest degree) and $1/10^{th}$ the Diff of Long. $173.4/10$ (nearest is 173) found in the dist col. under 35° - Opposite in the lat col. stands 142 the departure

Then with $1/10^{th}$ Diff of Lat 25.7 and $1/10^{th}$ Dep. 142 I find the Course to be from the 1st to the 2nd Port $S. 80^{\circ} W.$ and the distance 145 Miles. Mul^y by 10 = 1450 miles dist.

Question 3^d A Ship from latitude $37^{\circ}30'$ South Long 60° East Sails North $79^{\circ}55'$ West 202 Miles What latitude & Longitude is she in?

As the Course is North $79^{\circ}55'$ - I use 80° as the course and the dist 202 gives 198.9 Dep and 35.1 diff of lat
 Latitude left $37^{\circ}30' S.$ With the Mid lat 37° as a course
 Lat. made $35 W.$ and the dep. 198.9 found in
 Lat in $36.55 S.$ the lat col. Opposite in the dist
 Sum of lat. 74.25 col. stands 249 the diff of Long
 Middle lat. 37.12

Longitude left 60.00 East
 Diff of Long. 249 is 4.09 West
 And the longitude in 55.51 East

Question 4th. A Ship from the latitude of $34^{\circ} 35' N$. and long. $45^{\circ} 16' W$. sails South $83^{\circ} 36'$ East. 101 miles. What lat & long. is she in?

As the course is so near 84° . I use that as a Course

Co. S. 84° E. dist 101. gives 100.5 dep. And 11.5 lat. S.	
Lat. left $34^{\circ} 35' N$.	As the Middle lat. is $34^{\circ} 29'$
Diff of Lat. 11.5.	I use 34° and 35° as a course
Lat. in $34^{\circ} 24' N$.	$34^{\circ} \times 100.5$ Dep. gives 121
Sum of Lat. 68.59	35° do do do <u>123</u>
Middle Lat. $34^{\circ} 29'$.	<u>$224 \frac{1}{2}$</u> <u>$122^{\circ} 22'$</u>

This $2^{\circ} 02'$ thus found I subtract from the long. left and I have
 Long left $45^{\circ} 16' W$
 Long made $2^{\circ} 02' E$
 Long in $43^{\circ} 14' W$

Question 5th. A Ship from lat $49^{\circ} 57' N$ and longitude $15^{\circ} 15' W$. sails South-Westerly till her departure is 78.9 miles and lat in $39^{\circ} 20'$ North. What was her course, dist sailed & lat. & longitude in?

Lat. left $49^{\circ} 57' N$	With the diff of lat 63.7 & Dep 78.9 or
Lat. in $39^{\circ} 20' N$	110 of them 63.7 and dep 78.9. I find the
Diff of lat. 10.37	Course to be S. $51^{\circ} W$ and dist 101.5 &
Diff of Lat. $63^{\circ} 7'$ miles	Multif. by 101.5 Miles Distance

Lat. left $49^{\circ} 57' N$	With the Middle Lat $44^{\circ} 38'$ I take
Lat. arrived in $39^{\circ} 20' N$	44° & 45° as a Course
Sum 89.17	$44^{\circ} \times 110$ Dep 78.9 gives 110
Middle Lat. $44^{\circ} 38'$	45° do do do <u>112</u>
	<u>222 is 111</u>

Multif. by 10 is 1110 Miles divided by 60° is $18^{\circ} 30' W$.
 Longitude sailed from $15^{\circ} 15' W$.
 Longitude in $33^{\circ} 45' W$.

Question 6th A ship in the lat of $42^{\circ}30'N$
 Long. $58^{\circ}51'W$. Sails S. E. by S. 591 Miles; What is her
 latitude & Longitude in?

Course. S. E. by S. Dist 591 halves 295.5 gives us
 245.3 diff of lat and 163.9 dep } Lat left $42^{\circ}30'N$
 $10 \overline{) 440.0}$ } Diff of lat. $8.11S$
 $8.1.6$ } Then find the Mid Lat. Lat in $34.19N$
 Sum of lat. 76.49
 Middle Lat $38.24.5$

With the Middle lat as a course and $\frac{1}{2}$ half the dep
 go to the Table and use $38^{\circ} & 39^{\circ}$ and 163.9 dep gives
 the 208 . and $39^{\circ} & 163.9$ gives 211 . Sum $\frac{208}{211}$
 Longitude sailed from $58^{\circ}51'W$. $40 \overline{) 419}$
 Diff of Longitude $6.59E$.
 Longitude in $51.52W$.

Question 7th Suppose a ship sailing from a
 place in latitude $49^{\circ}57'N$. and Longitude
 of $30.00W$. Makes a course good of S. $39^{\circ}W$. and
 then by observation, is in latitude of $45^{\circ}31'N$ North
 What dist. did she run. and what long. is she in?
 Lat. left $49^{\circ}57'N$. } Co. S. $39^{\circ}W$. diff of lat. 266 half
 Lat. in by Ob. $45.31N$. } is 133 gives 171 dist & 107.6 dep
 Diff of lat. 4.26 } Distance 342
 diff of lat. 266 Miles. } Then with The Middle lat
 for 47.44 . I use 48° as a course
 and find 107.6 in the latitude column and
 opposite in the dist Col. stands 181 this multy
 by 2 gives $322 = 10$ 5.22 The diff. of lat

Longitude
 Longitude left $30.00W$
 Diff of long $5.22W$
 Longitude in $35.22W$

Question 8th. A ship in latitude $50^{\circ} 00' S.$ and longitude 30° East Sails E. S. E. till her dep. was $95\frac{1}{2}$. What latitude and longitude is she arrived in?

Course E. S. E. Dep 95.7 or 110 95.7 gives us
 104 dist and 39.5 diff of lat.
 Dist. $\frac{10}{1040}$ miles bc) $\frac{10}{39.5}$ Lat left 50.10 S.
 6.35 - diff of lat 6.35 S.
 As the Mid. lat is 53.27 1/2 or 53 1/2 53.45 S.
 Our 53 and 110 dep 95.7 gives ... 159 } Sum of 106.55
 ... 54 do do do 103 } Mid Lat 53.27 1/2
 1/2 3220.

101. Mult by 10 is 1610 = 26.50 def Long
 Longitude Sailed from 30.00 East
 Difference of Long Made 26.50 East
 Longitude in . . . 56.50 East

Question 9th A ship in the lat. of $49^{\circ} 30' N$,
and Longitude of $25^{\circ} W$. Sails South-Easterly 125 Miles
until she had made 500 Miles departure. Required
the Course Steered, latitude and longitude in?

Distance Sailed 545 . Dep. made 500
 Divided by 5 $\underline{109}$ $\frac{1}{5}$ Dep $\underline{100}$ These No.
 corresponds to a course of S. 51° E. and 81.2 diff of Lat.
 Lat. left $49^{\circ} 30'$ N. $\underline{105.0} = 6.46' S$,
 diff of lat. $\underline{6.46 S}$. } With Mid Lat. 46° as a course &
 Lat in $42^{\circ} 44'$ N. } and $\frac{1}{5}^{th}$ the dep 100 found in
 sum of Lat. $\underline{92.14}$ } the lat col. over $46'$ in Table 2^d
 Mid Lat. $\underline{46.07}$ } Stands 144 in the dist col. this
 is $\frac{1}{5}$ $\underline{720}$ } $\frac{1}{5}$ $\underline{720}$ } Diff of longitude and
 Divided by 60 $\underline{12^{\circ}}$ } $\underline{12^{\circ}}$ } Lat of Long Co.

Longitude Sailed from $25^{\circ}00' W.$
 Diff of Longitude Made $12.00 E.$
 Longitude in . . . $13.00 W.$
 (Stopping only one mile from the River by Legai

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Mercators Sailing.

Questions for Exercise.

Question 1st. A ship in latitude $49^{\circ} 57' N.$ and longitude $15^{\circ} 16' West$ sails South-West by until her departure is 789 miles and then by observation is in $39^{\circ} 20' N.$ What course did she steer and what did she sail & what longitude is she in?

Lat. left $49^{\circ} 57'$ Meridional Parts 3470, Dep^e 789
 Lat. in $39^{\circ} 20'$ Do Do 2571
 $\frac{10^{\circ} 37'}{10^{\circ} 37'} = \frac{637 \text{ Miles}}{899 \text{ Merid}^l \text{ dif Lat}}$

With $\frac{1}{10}$ the ~~xxx~~id dif. of Lat. 63.7 & $\frac{1}{10}$ dep. 78.9
 I find the course to be $S. 54^{\circ} W.$ and dist 101.5¹⁰

Multipled by 10 gives The dist. 1015 Miles
 Then with this course 51° I look for $\frac{1}{10}$ the Meridional diff of lat 89.9 . Nearest No. found in the lat. col. is 90 - Opposite this in the departure Col. stands 111.1. This Multipled by 10 gives 1111 - divided by 60 is $18^{\circ} 31' W.$
 This add to the longitude left - $15.16 W.$
 and we have the longitude in $33^{\circ} 47' West$

Course $S. 51^{\circ} West$ Dist 1.015 Miles
Longitude in $33^{\circ} 47' West$

Question 2^d A ship in latitude $42^{\circ} 30' N.$
and longitude 58.51 West sails S.W. by S. 591'
What latitude and longitude is she in?
Course S.W. by S. Dist. 591'

With this Course and ... 295.5 Enter the
Table 1st And by dividing the difference of lat. & dep.
Equally between. what is given to 295 & 296 distance
I find the diff of lat to be 245.5 and dep. $104.$

Lat. left 42.50 N. M. P. 2822 } 110 } $\frac{491.0}{8.11} = 8.11$ Diff. of Lat.
Diff of Lat 8.11 S.
Lat in 34.19 N. M. P. 2194 }

Mundional diff of Lat. 628 Then with 110° the Mund. diff of Lat
 62.8 I go to Table 1st and under the Course of S.W. by S.
and opposite 62.8 in the lat col. in the departure col.
opposite stands 41.7 - To this I add $3/10$ and call
it $42'$ on acct of loss of fractions in the Table
Diff. $420' = 7^{\circ}$ long W. This added to long. left is Long in 65.51 W.

Quest 3^d A ship from lat 49.57 N. and Long. 30° W. sails
S. 39^o W. till she arrives in Lat. 45.31 N. What is her dist & long in
Lat left 49.57 M. P. 3470 } With $1/2$ diff of Lat 133 and
Lat in 45.31 do do 3074 } under the Course 39^o I find
 $4.20 = 200'$ } $4.396 =$ opposite to 132.9. stands $171 \frac{1}{2}$ dist
half diff of Lat. 133. } M. P. 198 } and 107.6 dep. } 342 dist.

Then with the Course 39° & Mundional diff of Lat
198 I find the diff of Long. Thus under 39° I look
for $1/2$ the Mund diff of lat 198. in the lat col. stands 161.2
in the dep col. this multiplied by 2 - is ... $322 \frac{2}{2}$
or 5.22 The difference of longitude made W.

Longitude sailed from 30.00 W.

Difference of Longitude .. 5.22 W.

Longitude in ... 35.22 W.

And the Distance sailed 342 Miles

Question 4th A ship from lat. $50^{\circ}10'S$ and
 long. $30^{\circ}00'E$. Sails E.S.E. till her dep. is 957 Miles
 What dist did she sail, and what lat. & long. is she in?
 Course E.S.E. Dep 957 or $\frac{1}{10}^{\text{th}}$ 95.7^{th} gives 103.5 dist. & 39.6 diff of Lat.
 Lat left $50^{\circ}10'S$ Merid. Parts 3490 } Dist 1035 Diff Lat $39.6^{\text{th}} = 6.36$
 Diff of Lat $6.36S$.
 Lat. in $50.10S$. Merid Parts 3490 } With $\frac{1}{10}$ the Merid. diff of lat 66.7
 Meridional diff of Lat 66.7 } Enter Table 2^d and over the
 course of E.S.E. or 6 points and find the nearest
 corresponding No. in the lat col. is 66.6 and oppo-
 site in the dep. col. stands 100.8 this Mult. $^{\text{th}}$ by
 is 1008 = 26.48 The difference of longitude
 This add to the long left — Longitude left $30.00E$.
 Latitude in $50.40S$. Longitude made $26.48E$.
 Distance 1035 Miles Longitude in $50.48E$.

Question 5th A ship in lat. $49^{\circ}30'N$. & long. $25.00W$. Sails
 south ^{Easterly} ~~Westward~~ 645 till she made 500 dep. What Course
 did she steer and What lat. & long. has she arrived in?
 With $\frac{1}{10}^{\text{th}}$ the dist 129. & $\frac{1}{5}$ the dep 100 agree nearly to a Course
 of 51° and a difference of lat. of 81.5 Mult. by 5 = 408 = $6.40S$.
 Lat left $49.30N$. Merid. Parts 3428
 Diff of Lat $6.40S$.
 Lat in $42.44N$ dist 2837
 Merid diff of Lat 589 = diff by 5. 117.45 or 81.0
 With $\frac{1}{10}$ Enter the Tables again with the Meridional
 diff of Lat or $\frac{1}{5}$ = 117. and 81.0 And over the Course
 51° - I find in the Lat col. 117.7 the nearest No. and in
 the dep col. opposite stands 145.3 x by 10 = 726.5 = $12.06E$.
 Longitude left $25.00W$. Course S. $51^{\circ}E$
 Diff of Long. $12.06E$. Lat. in $42.44N$.
 Longitude in $12.54W$.
 The longitude differs 3 miles on acct of the Course
 differing a little from that by Log.

To find the Declination at any time. under any Meridian

Example 1st Required the Sun's declination. at the
end of Sea day Oct 10th 1848 in longitude 130° E. from Gre.
Sun's Decl. Oct 10th at the end of Sea day by Tab. 4 is 6° 46' S
Variation of Decl. Oct 10th 130° E. from Greenwich — 8
True declⁿ at noon in 130° East. . . 6° 38' S

Example 2^d What was the Sun's declination Oct 10
1848 Sea acct at 8^h 21^m A.M. in long. 130° E. from Greenwich
Sun's dec. at noon as found above was 6° 38' S
Variation of declination for 3^h 39^m from Noon Sub.† 3
True decⁿ Oct 10th 48. in long. 130° E. @ 8^h 21^m A.M. 6° 35' S
In this case the declination was taken out for
Noon at the end of "Sea day" and as the decⁿ was
increasing, it was less at 8^h 21^m. Therefore all the decⁿ
increased in 3^h 39^m must be subtracted as it was
that time before noon.

Example 3^d What was the Sun's decⁿ May 10th 1848
Sea acct at 5^h 30^m P.M. in longitude 35° 45' East?
Variation for 35° 45' East longitude — 1° 38' Sub.
Variation of dec in 5^h 30^m P.M. add. 3.44
The difference is additive . . . 2.06 — 2.06
May 10th 48 by N.A. the Sun's decⁿ was . . . 17° 26' 27"
True decⁿ May 10th 5^h 30^m P.M. Sea acct Long 35° 45' E. 17° 28' 33" N

11057

Question 4th New Bedford Oct. 2^d 1851.

What was the sun's dec. March 26th 1848
Sea acct at 3 O'clock P.M. in longitude 140° East
West from Greenwich?

Variation March 26th in long. 140° W. add 9'.08"

Ditto in 3 hours P.M. increasing add 2.50.

March 26th Sea Act. is by N. A. March 25th

at this time the Sun's declination was } 1. 30. 45" N.

True dec. March 26th (at 3 P.M. in 140° East 2. 08. 45" N.

As the declination was increasing and the longitude West it is evident that declination increased from the time the sun passed the Meridian of Greenwich until she arrived at the place of observation in 140° West of Greenwich therefore the declination of 9'.08" must be added as the sun's declination was taken out for noon at Greenwich.

And as it was 3 hours P.M. and declination taken for the nearest noon. and the declination increasing 3 hours (from noon to 3 P.M.) this also must be added to the declination at noon as above worked.

To find the Time at Sea and Regulate a Watch by the Sun's Altitude

Question 1st In latitude $36^{\circ} 39' S$. Sun's Decⁿ $9^{\circ} 27' N$.
The Altitude of the sun's lower limb in the Morning was
observed to be $10^{\circ} 33' A$. What was the Apparent time?

Sun's Alt. $10^{\circ} 40'$
Latitude 36.39 Sec^t . . . 0.09566
Polar dist 99.27 Cos^t . . 0.00593
Sum . . 146.46

Observed Alt. . . $10^{\circ} 33'$
Semicircular ¹² . . .
Refraction Sub^t 10.45
Correct alt. 10.40

Half Sum. 73.23 Cosine. 9.45632

Sun's Alt. 10.40

Remainder 62.43 Sine . . 9.94878

Nearest log Sine found 3 9.75331 giving $7^h 23^m 53^s$ Sine 9.75334

and the 3 by Table A. gives 1 . this subtracted gives $7^h 23^m 51^s$ Sub^t

because an increase of the log diminishes the time

Polar Distance

Radius . . $90^{\circ} 00'$

Declination add 9.27

Polar dist 99.27

Question 2^d In lat $36^{\circ} 21' S$ Sun's Decⁿ $8^{\circ} 44' S$. Alt of the
sun's L.L. in the Morning $10^{\circ} 48' A$. What is the App^t time?

Sun's alt. 10.55

Sun's alt. $10^{\circ} 48'$

Latitude . . 36.21 Secant 0.09398

11.00

Polar dist 98.44 Cos^t . . 0.00506

Corr^t Alt. $10^{\circ} 55'$

Sum . . 146.00

Half Sum 73.00 Cosine. 9.46594

Radius $90^{\circ} 00'$

Sun's Alt 10.55

Sun's Decⁿ 8.44

Remainder 62.05 Sine . . 9.94627

Polar dist. 98.44

12 19.57125

Sine of this 9.75562 - The nearest log^r found
is 9.75569 giving $7^h 22^m 8^s$ and the diff. 7 by Table A.
Gives 3 - Log add^t . .

Answer $7^h 22^m 11^s$

Question 3^d Lat $29^{\circ} 25' N$. - Sun's dec: $23^{\circ} 20'$
 Obs^d alt Sun's 22° - P.M. what is the App^r time?
 Sun's Alt 15.07 Obs^d Alt 14.58
 Latitude 29.25 Sec' 0.05995 { Refraction $15'' 10_3$
 Polar dist. 60.40 Cosine 0.03706 { Sun's alt 15.07
 Sum 111.12 {
 $\frac{1}{2}$ Sum 55.36 Cosine $q. 75202$ { Polar Distance
 Sun's Alt. 15.07 { The lat. & declination
 Remainder 40.29 Sine $q. 81240$ { are both North therefore
 19.66143 { Subtract the declⁿ from
 Sines. $q. 83071$ } 90° and we have 60.40
 Nearest No. found in the Table is $q. 83078$ This gives us
 $5^{\circ} 41' 4''$ diff. of log^s 7 by A. 7 gives 4 This I subtract
 $5^{\circ} 41' 0''$ - The answer.

Question 4th Lat $3.31' S$. Sun's Alt. $22^{\circ} 38' 41''$
 Declination $20^{\circ} 03' S$. What is the App^r time?
 Sun's Alt 38.52
 Latitude 3.31 Sec' 0.00082 { Obs^d Alt 38.41
 Polar Dist 69.57 Cosine 0.02715 { Semidiam^r 12
 Sum 112.20 { Refraction 38.53
 $\frac{1}{2}$ Sum 56.10 Cosine $q. 74568$ { Cor. Alt 38.52
 Sun's Alt 38.52 { 90°
 Remainder 17.18 Sine $q. 47330$ { Sub^t $20.03 S$
 Sum 19.24695 { 69.57
 Sine of $\frac{1}{2}$ Sum $q. 62347$
 The nearest log Sine found $q. 62350$ - This gives $3.18.48$
 Diff of Logs 3 by A. gives 1
 Answer $3.18.47$

Question 5th Lat. 13.17° N. Dec. 22.10° S. Sun's altitude S.E. 36.26 . What is the apparent time of Observation?

Sun's Alt 36.37	Obs ^d alt. 36.26
Latitude 13.17 Sect ⁿ 0.01178	<u>36.12</u>
Polar dist 112.10 Cos ^t 0.03335	Refraction <u>1</u>
Sum <u>162.04</u>	Correct ^d alt <u>36.37</u>

$\frac{1}{2}$ Sum 81.02 Cosine 9.19273	Sun's dec ⁿ <u>90.00</u>
Sun's Alt 36.37	<u>22.10</u>
Remainder <u>44.25</u> Sine <u>9.84502</u>	Polar dist. <u>122.10</u>
<u>19.08288</u>	
<u>9.54144</u>	

The nearest log. sine found is 9.54161 - giving $9^h 17^m 4^s$
 Difference 17. This diff. by Table⁷ gives 4 to be add^d.
 and we have the apparent time of Obsⁿ. $9.17.8$ The Answer

Question 6th Lat. 21.36° S. Sun's decⁿ 3.37° S. A.M.
 The Obs^d Alt of Sun's S.E. 35.48 . What is the App^t time?

S. Altitude 35.59	Obs ^d alt. S.E. 35.48
Latitude 21.36 Sect ⁿ 0.03462	<u>36.12</u>
Polar dist 86.23 Cos ^t 0.00087	<u>35.59</u>
Sum <u>143.58</u>	<u>90.00</u>

$\frac{1}{2}$ Sum 71.59 Cosine 9.49037	Sun's Dec ⁿ <u>3.375</u>
Sun's Alt 35.59	Polar dist <u>86.23</u>
Remainder <u>36.00</u> Sine <u>9.76922</u>	
<u>19.29208</u>	
<u>9.64604</u>	

The nearest log sine found in the Table is 9.64596 giving $8^h 29^m 52^s$
 By Table A the difference 8 gives 2 Subtⁿ.
 This 2 is subtractive because the Obs^d Alt. $8^h 29^m 50^s$
 larger the log. the less the time and
 the log sought is 8 more than log. found for which
 you look the time $8^h 29^m 52^s$ sub^t the 2 and we have
 the App^t time as above $8^h 29^m 50^s$

To find the time of the Moon's pass^r
 the Meridian of any place (mean time)
 At what time did the Δ pass the Meridian of 80^W. Longitude
 on the 27th of June 1836 Sea account - Mean time?
 June 27th Sea Acct. is by N.A. that day the Δ passed
 The Meridian of Greenwich (a the $9^h 53^m 9\frac{10}{100}$ ^{h m}
 And on the following day (June 27) - (a $10^h 59^m 8\frac{10}{100}$ ^{h m}
 Daily Difference of her passages $1^h 03^m 9\frac{10}{100}$ ^{h m}
 As the daily difference lacks only $\frac{1}{10}$ of 64^m I go to Table 28th
 Page 230 and opposite the long. 80^W. and under 64^m of
 Variation stand 14^m - this add to the time just taken out $9^h 53^m 9\frac{10}{100}$ ^{h m}
 Also add for Long. 80^W. in time $5^h 20^m 00^s$
 And we have the time of the Moon's passing the Meridⁿ
 of 80^W on the 26th day of June $26^h 15^m 30^s 00^{\frac{10}{100}}$ ^{h m}
 In this case $9\frac{10}{100}$ is called 1^m

To find the Δ 's declination $26^h 15^m 30^s$
 By the N.A. the Δ 's Declination June 26th 15^h was $23^{\circ} 37' 43''.2$
 And the Variation of dec. in 10^m was $87'' - 98\frac{10}{100}$
 To find the dec. for 30^m - I say if 10 gives 8798 what will 30 give $23^{\circ} 42' 07''.1$
 And by $\frac{10}{101} \frac{263940}{263}$
 do - 60 263
 This I use as $4^h 23^m 9\frac{10}{100}$ as above $4^h 23^m 94\frac{10}{100}$
 } Δ 's Declination

To find Δ 's Horizontal Parallax
 June 26th 12^h. By N.A. Midnight Hor. Par^x was $60^{\circ} 53' 8''$
 27 - Ditto Noon. Ditto $61^{\circ} 07' 4''$
 Diff. in 12 hours from Midnight to Noon 13.6
 We have found the H.P. for the 26th 12 and now have to find it for
 3.30 more. thus $\frac{12}{720} \frac{13.6}{2720} \frac{272}{2720} \frac{272}{2720}$
 $720 \overline{) 2720} (3.9\frac{10}{100}$ $3^h 30^m$ gives $3^h 9^m 45^s$
 $26^h 12^m$ gives $60^{\circ} 53' 8''$
 Thus I call $60^{\circ} 58''$ Hor. Par^x $480/720$ $60^{\circ} 57' 7'' - \frac{48}{720}$

By the above I find the Δ pass the Merid of the obs June $26^h 15^m 30^s$
 And her declination at that time was $23^{\circ} 42' 07''.1$
 and her Horizontal Par^x $60^{\circ} 58'$ Augm^t by $5.15.10'' = 60^{\circ} 48''$

To find the Latitude by the Meridian Altitude of the Moon.

Suppose. On the 27th of June Sea Aced in Long. 80° W. of Greenwich the Meridian Altitude of the Moon was Observed to be 40° 00' (Upper limb) and bearing South the eye of the Observer being 19 feet above the surface of the sea. What is the Latitude?

D's Observed altitude Upper limb on the Meridian 40° 00' 00"
 As the Upper limb was obsd Subtract the Semidiameter #. 16.48"
 Table 43th For dip of the horizon being 39° 48' 13"
 19 feet above the surface of the sea 4.17"
 D's Apparent Altitude 39.38.56"
 Correction Table 19 (Tabular No 59.42 = Subt. Cor. 13.52" and we have 45.50"
 D's Central alt sub from 90° 00' 00" Central alt 40° 24.45"
 is the Zenith distance 49.35.15 Zenith dist 49.35.14"
 D's Declination as found on the opposite Page 23.42.07"
 Latitude in 25.53.07"

To find the Correction above Marked thus & - With the Hor. Par. as found on the opposite Page 60.58" and D's appi' Alt 39.38.55" S. enter T. 19th page 118 and under 60' of Par. at the top & opposite 39.30 D's alt. for the remaining 8.55". I use 9^m - and by 13. 9 gives 5.13.46"
 for 58" Par. I go to Table A and opposite 50 at the side & under 8 at the top stands 1. This also add. and we have 13.52"
 this subtracted from the regular Tabular No. 59.42 - 59.42"
 And we have the Correction Table 19th Marked thus & above 45.50"

To find Moon's Semidiameter 26^a 15.30"
 D's Semidiameter at Midnight 26^a 16.35.7"
 The following - Noon 27th - 16.39.4"
 Diff in 12 hours 3.7"
 By Table 18th 4 - gives 1 This added
 To - 16.35.7"
 16.36.7"
 Aug^d by F. 15 for alt 40 is 10
 16.46.7 or 16.47"

Notes to assist in working the lunar on the
opposite page. First Sea Rect. Jan. 7th (at 11.57 just
midnight is by N.A. Jan. 6th 12.11.57 - Nautical Rect begins one
day or 24^h. less than sea rect. commencing where sea day ends
and runs from 1 to 24 hours, as this day's obs. was taken 11.57^h. after midnight
on the 6th by N.A. - which comm'd the noon previous it was 12 hours
to midnight & 11.57^h past. Therefore it was 6^h. 12^m. 11.57^s. See opposite work
Then to turn the longitude into time (see T. 21) which needs no explain
but to be sure you are right, multiply the longitude by 4 & divide the sum
by 60 and you have the time, reverse the position & you have the proof.
The Semidiameter & Horizontal Parallax. are found in the I & II pages
of the N.A. & Corr by Table 11th. - L.L. lower limb. U.L. upper limb. N.L. nearest limb
F.L. farthest limb. In this case the F.L. was taken in the measuring of the
distance from the star. Therefore the semidiameter must be subtr'd
from the dist of the ~~star~~ to obtain the central dist. ~~33~~ opposite
Table 17th as the star has so little parallax, no acct is made of it
(see page 89 of the tables) Oppos. 32° nearest degree of Δ 's Alt. Stands 58.29" in Col.
Marked "corr" And in Col. Marked "log" Stands 1.7018 (see Col. 1st & 3rd opposite
Table 19th. With Δ 's app. Alt. 34.55" And Hor. Par. 55.24" (see page 115)
I enter the table and opposite 34.50" in the side Col. Marked "app. alt." &
under Hor. Par. at top Stands 15.5". Then for the remaining 5" of Altitude
I go T. B. same page and nearly opposite - Stands 5". this gives 3 to be added
making 15.8". Then for the 24" of Hor. Par. remaining I go T. A. same page &
opposite 20" at the side and under 4 at the top Stands 29" this added and
we have 15.37" the correction of T. 19th this place in Col. 3rd (opposite work)
Then to find the log of T. 19th as used in Col. 2nd Marked thus \star . I go to
117 Page. And opposite to Hor. Par. at the side 55.20" and under the
nearest degree of Δ 's App. Alt. 35° at the top Stands 2231. Then for the
4" remaining of Hor. Par. I go to T. C. and 4" gives 7 this add and
we have the Log. of Table 19 this place in Col. 3rd - 2238 Marked thus \star .

Lunar Observation (Page 232 Book)

Suppose on the 7 of Jan^y 1836 Sea acct at 11.57^h past Midnight
mean time in long. 127.30. E. by acct. the Obs. dist^y of the D's
E.L. from the Star Alderanc was 68.36. Obs. alt^y of the D's E.L. 34.43
S's alt. 32.14. What was the longitude in?

Preparation.

Sea acct Jan^y 7th is by N. Almanac is Jan^y 8th 6. 12. 11.57^h
Longitude in 127.30 E. of Greenwich in time. . . . 8^h 30.00

Reduced or Greenwich Time. . . . 6. 3. 41.57^h

D's Semi-di. Jan ^y 6 th (at Noon 15.05)	D's Hor. Par Noon 55.20	D's Obs. alt. . . . 34.43
" do at Midnight 15.09	do. Midnight 55.34	Addo . . . 12
Difference 4	Diff in 12 ^h .14	
By T. 11 th 4 diff gives 1	By T. 11. 14 gives 4	D's App. alt. 34.55
This added to 15.05 15.06	This ad. 15.20 is 55.24	A's Obs. alt. 32.14
D's Semi-diameter 15.06	Hor. Par. 55.24	Subtract 4
Semi-diameter 15.15		A's App. alt. 32.10

Observed distance of A and D's E.L. 68.36.00

D's Semi-diameter Subtract . . . 15.15

To find the True distance 68.20.45. App. dist

App. dist. 68.21	Sine . . . Col. 1 st 9.9682	Same . . . Col. 2 nd 9.9682	App. dis less 2 = 68.20.45
S's app. alt. 32.10	2 ^d Rem 35.33 Cor ^d 0.2355	Same . . . 0.2355	Table 17 th . . . 55.29
	1 st Rem 38 Sec. 0.0000	1/2 Turn 67.43 Sec 0.4212	Table 19 th . . . 15.37
S's App. alt. 34.55	Table 17 th log. . . 1.7018	Table 19 th log. . . 0.2338	1 st Correction 2.14
Sum . . . 125.20	the P. L. of this . . 1.9055	Pro. Log of this 0.8487	2 ^d Cor ^d . . . 25.30
Sum 67.43	Is found in Table 22 nd is 2.14	is by T. 22 . . . 25.30 and	Table 20 th . . . 25
App. dist. 68.25	1 st Cor ^d Carried to Col. 3 rd . .	Carried to Col. 3 rd 2 Cor ^d .	True dist. 68.03.00

To Find the Longitude

The True distance. 68.03.00

Dist by N. A. Under 3rd . . . 67.41.43

pro. Log. Oppo dist N. A. 2872

21 " 17. T. 22nd pro. Log 9272

Mean Time at Greenwich 3. 41. 14

Add 3^h . . . 6400 P. L. 0.41.14

Mean Time at Ship 12. 11. 57

3 Mean time at G. 3. 41. 14

The diff. of time is Long. in 8.30.43 = 127.30.43 East

The mean time at ship being greater than the Greenwich time the Longitude is East. but if less it is West
The true time at ship is 8. 30. 43 - more than the time at Greenwich. This turned into time Table 21st page 131 give the Longitude in 127.30.43. East

Note Example 2^d - Opposite Page 1.

In this case the distance of the Moon from the star Antares was measured on the 2^d day of April Sea Acc^t at 2^h 03^m. 50^s A.M. Or in other words, 2^h 03^m. 50^s past Midnight (Sea Acc^t) Which is by N.A. One day less than Sea Acc^t April 1st 14^h 03^m. 50^s. Reconc^d thus. From the 1st of April to Midnight is 12 hours to this add the 2^h 03^m. 50^s past Midnight and we have 1st 14^h 03^m. 50^s as the time of observation - Then turn the Longitude into time by Table 21st. Or by Multiplying the long by 4 and dividing by 60 and we have the longitude in time in this case the long. is 172° E.

60) 68.8⁴ = 11.28 This Subtracted (being East) from the time of observation and you have the time at Secured or Reduced time

In finding the Semidiameter and Horizontal Parallax be careful to correctly apply the correction of Table 11th. Also to apply the Sun & Moon's Semidiameter correctly if the nearest limb is Observed Add if the farthest limb is Observed Subtract the Semidiameter from the Observed dist^y

Table XIX. (See page 120) With D's App^t. alt. 45° 35' and Hor. Par^x 58'. 42" I enter the Table and opposite 45° 36' of Alt under Par^x 58' - at the top stands 19.17" then for the 42" Remains of Parallax I go to "Table A" and opposite 40' under Stand 12 - this add - then for the 5^m. alt I go to T.B. opposite and find 5 gives 3. this add and we have = 19.32" - this place in Col. 2^d as correction of T. 19" +

Then with 58'. 40" in the side Col. and under 45^p stand 1945 - And for the 2^d Remains of Par^x I go to T.C. and find 2 gives 9. this added = 1954 the log of T. 19" this place in Col. 2^d of the opposite work

Example 2.^d Page 233

Preparation.

Sea Acct April 2.^d is by N.A. April 1.^d 14.^h 03.^m 50^s
 Longitude in 172.^o East in time 11. 28. 00
 Reduced, or time at Greenwich 1. 02. 35. 50
 D's Semidiameter 11.^h 1.^m Noon 15.59 Hor Par Noon 58.38 S's Alt. 68.29
 " Do do Midn. 16.04 do Midnig 58.50 Subtract 4
 Difference 5 Difference. 18 S's Alt. 68.25
 Table 11.th - 5 diff gives one 1 Table 11.th . . . 4 D's Obs Alt 45.23
 Added to 15.59 just taken out . . . 10.00 D's Hor. Par 58.42 Add 12
 Augmented by Table 15.th 11 D's App Alt. 45.35
 D's Semidiameter . . . 10.11

Observed Distance **D.F.L.** 61.^o 04. 00
 Subtract D's Semidiameter 10.11
 Apparent distance 50. 47. 49
To find the true Distance

Col. 1. st		Col. 2. ^d		Col. 3. ^d	
App. dist. 50.48	Sine	9.9419	Same	9.9410	App. dist. less 2 = 58.47.49
app alt. 68.25	2 ^d Rem 18.59	Cose 0.4877	Same	0.4877	Table 17. th . . . 39.37
app alt 45.35	1 st Rem 26.36	Sec 0.0486	1/2 Sum 87.24	Sec 1.3433	Table 19. th . . . 19.32
m . . 174.48	Table 17. th log.	1.9438	Table 19. th log.	0.1954	1 st Cor. Col. 1. st . . . 0.11
87.24	The 1 st Log of this 2.4311		The P. log of this 1.9674		2 ^d Cor. Col. 2 . . . 1.50
St. Rem 26.36	is the 1 st Cor. 0.41		is the 2 ^d Cor. 1.50		Table 20. th . . . 19
Rem 18.39					True dist. 60.09.54

To find the true Longitude

True distance 60.09.54
 Dist by N.A. at 0.^h 61.40.13.P.L. 2348 Found in N.A. opposite the dist.
 Difference 1.30.19 P.L. 2995 Taken from T. 22.^d the log of 1.30.19
 The P.L. of Difference 0047 is 2.^h 35.06
 Add no hours 0.0000
 Mean Time of Obs. at Greenwich 2.35.06
 Mean Time at Ship 14.03.50
 Difference is the Long in time 11.^h 28.^m 44.^s = 172.11 East
 Longitude in 172.11 East from Greenwich

Blank ledger page with horizontal ruling lines and faint, illegible text impressions.

Ships Chronometer Long by her day
West from Greenwich 70:02.49.08
68.31-

September 27, 1854

My Chronometer Long Day

20.11. West - 62.25 - 66.00

Messrs

Sunday On Board Bar B

April 17th 1856

This day commences with light breeze & clear weather at 1 o'clock P.M. got under way from Atacames with Water & Wood on board for a cruise
Lat 1. 29 N

Thursday April 18 Long 80 35 W

This day light winds & clear weather heading NW saw Blackfish saw the Land & three Steamers bound South wore ship in shore saw one ship land in site
Lat 1. 14 N

Friday April 19th 1856

This day brisk breeze heading in at 6 P.M. tacked of shore saw the ships laying at anchor in Atacames
Lat 1. 40 N

Sunday 20 of April Long 80. 45 W

This day fine weather & cloudy heading NW by W
Lat 2. 30 N
Long 81. 30 W

Monday April 21th

This day brisk breeze & cloudy weather wind S.W. heading W by N
Lat part Squally rainy weather
Lat 3 17 N
Long 82. 09 W

Heron Snow of New Bedford

Tuesday April 22 1856

This day Com with strong winds & a bad
Sea heading N by S & W by N low porpoises
Lat 2 47 N

Wednesday April 23th Long 82 12 W

This day Com with fine weather & moderate
breeze & light air. Saw a Turtle
Lat 2 38 N

Thursday April 24 Long 83 45 W

This day light air & calm & strong
breezes with rain
Lat 2 45 N

Friday April 25th Long 84 58 W

This day strong winds & cloudy weather
heading N by S
Lat 2 25 N

Saturday April 26th Long 87 00 W

This day strong winds & rugged water
in their topgallensail
Lat 1 44 N

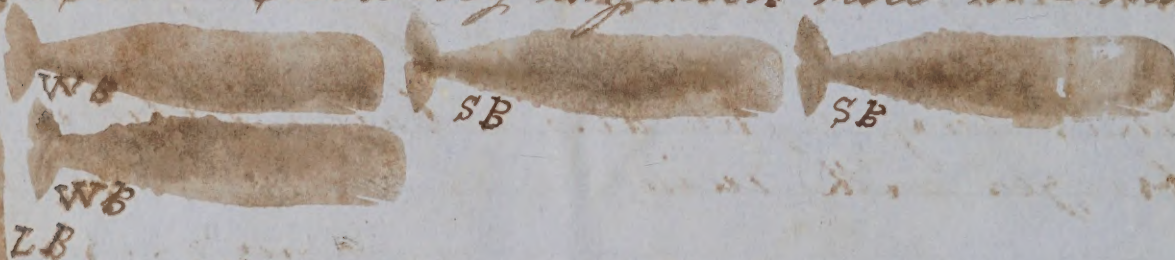
Sunday April 27th Long 89 02 W

This day Com with brisk breeze & clear
heading S W by S Lat part moderate at 11
2 M made Abington Is bearing S S W
Distant 30 miles at 12 o'clock Lat 00 50 N
Saw a School of sperm Whales Long 90 15 W

Of the Galapagos Islands

Monday April 28th 1856

This day fine weather at 1 o'clock Lored
the boats Strake & Killed three bow
whale at 5 got them along side made
sail heading to the N.E. Lat part fine
Commenced cutting at 7 P.M. saw the
shape of Sperm Whales going to the
N.E. Lored the boats Strake & Killed
two at 10 o'clock got them along side
& Com cutting again saw the land



Tuesday April 29th 1856

This day moderate fine weather
All hands employed in cutting
Cut in 4 of them Com looking
3 o'clock into daylight but in the
other whale all hands employed in saving
oil the Culpepers Islander Site

Lat 1 47 N
Long 91 47

Wednesday April 30th

This day light air & Com heading
to the S.E. all hands employed
in looking & setting up Shorter

Lat 2 04 N
Long 91 36

Cruising

Thursday May 1st 1856

This day fine weather at
5 o'clock moved ship to P^W all hands
employed in boiling. Lat 2. 29 N
Long 92. 39 W

Friday May 2nd 1856

This day light air & Clear weather
at 2 P^M Finished boiling. Lat 2 41 N
Saturday May 3rd Long 92. 00 W

This day light airs from N^W & W
and Calm employed in Coopering. Lat 2 45 N
Sunday May 4th Long 92. 57 W

This day light breezes ~~wind~~ from P^R W
heading S E mid & Lat parts fine breeze. Lat 2, 23 N
Monday May 5th Long 92. 32 W

This day fine breezes heading S E & E
Saw a Ship of the Ice bound at daylight
Saw the Cut spers all hands employed
in Stowing down in the main hold. Lat 1. 30 N

Tuesday May 6th

Came with a
Very Strong breeze & rigged Stowing Oil
finished Stowing down Saw a Ship. Island in
Sight. Lat 1. 25 N Long 92 15 W

Burt & Heben Snow of New Bedford

Wednesday May 7th 1836

This day moderate breezes & clear weather
employed in working ship Lat 00. 54 N
Long 92 40 W

Thursday May 8th

This day moderate breezes & clear
weather Saw a ship Lat 44 W
Long 92 01 W

Friday May 9th

This day moderate weather at
Spoke the Br. Tatum of New
Hampshire 31 months out. Lat 32 mi N

Saturday May 10th

This day Calm employed in over
hauling Old Shooks Saw 3 Sails
Lat 20 m N
Long 92 14 W

Sunday May 11th

This day light air and Calm Islands
in Sight Saw two Sails Lat 18 m N
Long 91 48 W

Monday May 12th

This day light air & Calm
North head Buirney Pt E 9 mi Lat 07 m N
Saw two Sails Long 91 47 W

Of The Gallapagos Islands

Tuesday May 13th 1856

This day Calm & foggy & light airs
Laying in between Rock Island & Albemarle
at 8 AM went in Fishing,

Wednesday May 14th 1856

This day Calm too Ship in Site
Saw Blackfish Lored & got one strong
Current to the N^W light wind from S^W
Lat 23 m N

Thursday May 15th

This day a fine breeze from the S^W
Steaming A^P 6 Lat part Calm Lat 41 m N
Dorley out the Blackfish Long 91 34 W
Friday May 16th 1856

This day Calm with light & hazy
weather Saw the north point of Albemarle
Lat 41 12 N

Saturday May 17th Long 91- 16 W

This days light winds Saw Hemmison Is
Sunday 18th Lat 49 m N

This day Calm Saw finbacks Blackfish
& Porpoises it Continues Calm
Lat 34 m N
Long 91 24 W

Journal on Board Bark Helen

Monday May 19th 1856

This day Com with Calm Cloudy weather Calm all there 24 hours. Albatross in Site Saw a ship

Tuesday May 20th 1856

This day Com with Calm Cloudy weather & the Current setting to S.W. Mid & Later parts light breeze Saw a ship
Lat 49 m N

Wednesday May 21th

This day Com with moderate winds at 2 M spoke the Mary Wilkes of New Bedford since 22 months out 900 Spinn Mid & Lat parts fine at 12 o'clock. Herman Island bore South 10 miles. Saw a ship. Supposed it to be the Mary Wilkes
Lat 1 31 N

Wednesday Thursday May 22th 7

This day Com with light. Fair & fine weather Saw 2 Blackfish Mid part light winds heading to the S.W. Lat part brisk breeze backed ship to E & E the Mary Wilkes of to toward land nothing this day
Lat 1 14 N
Long 72.42 W

Log of New Bedford

Friday May 23th 1856

This day came with fine Trades & hazy weather Mid & Lat part the same
Saw three Ships of the Lee beam Lat 1 49 N
Long 92 49 W

Saturday May 24th

This day light trades heading to the Eastward
with a strong North West tide Saw six Ships
Lat 2 12 N

Sunday May 25th

This day came with light Trades heading
N E Saw Blackfish & to Ship Lat 2 36 N
Long 92 10 W

Monday May 26th

This day moderate winds & hazy weather
turned Ship to the South Lat part very
fine Saw Blackfish tored & got one Saw
Five Ships Lat 1 36 N
Long 92 39 W

Tuesday May 27th

This day very fine Clear weather
Mid part calm Lat part light air
Saw 4 Ships employed in boiling
out the Blackfish Lat 2 13 N
Long 92 09 W

Journal on Board Bark

Wednesday May 28th 1854

This day Com with light Trades
from S E at 5 P M loosed the boats
& got three Blackfish Mpart Cabin
Lat part fine Trades saw three Ship
Lat 2 33 N

Thursday May 29th Long 91 48 W

This day Com with fine Trades but
hazy weather Lat part brisk Trades
Spoke the Bark Hercules of New Bedford
Loses 32 months out 1150 lbs Bought
Bread of her employed in boiling Black
Lat 3 00 N

Friday May 30th Long 91, 06 W

This day Com with Strong Trades
Mid & Lat part very moderate saw
three Ship Lat 3, 10 N

Long 92 08
Saturday 31 of May 1854

This day Com with Calm heading to
the S W Mid part light winds
Lat part Strong Trades talked
Ship to the East saw one finback
& two Ship So ends this month
Lat 2 54 N
Long 92 32 W

Helen Snow of New Bedford

Sunday June 1th 1856

This day Com with Strong Trades
& Clear weather Mid part light Trades
heading E & S Lat part fine at 6 P M
Saw a large Coab of Sperm whale going
to the S E towed the boats Struck & killed
one large one to the Lardord Boat Saw
4 fore other Ships all whaleing to ends

L.B.

90 lbs

Lat 2.30 N Long 92.40 W

Monday June 2th 1856

This day Com with fine weather
at 1 P M at the whale along side
at 3 hooked on at dusk lashed down
Mid & Lat parts fine at daylight
Com Cutting saw two Ships boiling
to ends this day Cutting

Lat 3 58 N
Long 91.37 W

Tuesday June 3th

This day Com with Strong Trades at
3 P M finished Cutting Mid part Com
Boiling Lat part very ragged reefed to top rail

Lat 4 11 N

Wednesday June 4th

Long 92.13 W

This day Com with Strong Trades & ragged
weather Mid & Lat parts moderate
wore Ship to E all hands employed
in boiling

Lat 4 00 N
Long 92.35 W

Cruising for Sperm Whales

Thursday June 5th 1856

This day Com with moderate weather
Mid part finished boiling at midnight
Lat part improved in clearing up
decks

Lat 4 13 N
Long 91 52 W

Friday June 6th

This day Com with moderate
weather Mid & Lat parts very light air
Saw porpoises

Lat 4 40 N

Saturday June 7th

Long 91 24 W

This day Com with light Trades &
Clear weather heading to the Eastward
Mid & Lat parts brisk breeze heading S E

Lat 4 27 N

Sunday June 8th

Long 90 27 W

This day Strong Trades from S W heading
S E Mid & Lat parts much the same

Lat 3 27 N

Monday 9 June 9th

Long 90 18 W

This day Com with Strong Trades
& Cloudy weather heading S E by E
Mid & Lat parts The
same employed in coopersing

Lat 2 37 N

Long 88 08

Lark Nelson Snow

Tuesday June 10th 1856

This day Com with Strong Trades
& Cloudy weather tacked Ship to P^W
Mid part the fore late part employed
in Stowing down in the after hold
Sends

Lat 2 13

Long 89.32

Wednesday 11 June



Wb
32 1/2

This day Com with the Strong Trades
employed in Stowing down at
1 o'clock P^M saw Sperm whales
Close to the Ship galleyed them with
the Ship towed two boats Struck
& killed one to the Waste boat & took
him a long side finished Stowing down in
the after hold Mid part heading P^E Lat part
fine at 7 o'clock hooked on at 10 O got through

Lat 1 56 N

Thursday June 12th Long 89 56 W

This day Com with moderate winds &
Cloudy weather heading W^P P^W at 1 o'clock
Commenced boiling at day Mid part
fine at daylight finished boiling
Saw 20 Ships employed in Laying
up Shovels

Lat 1 42 N

Long 90 48 W

On Cruising ground

Friday June 13th 1856

This day Com with brisk Trades
tucked. Ship to E Mid part the same
Lat light Trades tucked to the SW employed
in Ship duty Lat 1 40 N

Long 90 08 W

Saturday June 14th

This day Com moderate Trades
& Cloudy weather heading to the SW
Saw Mid & Lat parts much the same
at daylight Saw Abandon Kept of NW
Saw one Ship at 10 AM Saw Wenman Is

Sunday June 15th 1856

This day Com with fine Trades
at 4 PM Spoke the Wm & Henry
of Fairhaven Grinnell 6 months out
60 lbs Sperm she was boiling Mid &
Lat parts fine Saw three Ships Wenman
Island in Lite

Lat 57 m N

Long 91 50 W

Monday June 16th

This day Com with moderate Trades
& clear weather Mid parts the same
Lat parts strong Trades & Cloudy all hands
employed in blowing down in the fore
hole at dark finished Saw two Ships
culpepper bearing E distant 10 miles

Off Crabpepper Island

Tuesday June 17th 1856

This day Corn with brisk Trades & Cloudy weather Steaming N^W Mid part heading by the wind but part strong Trade turned to WSW Saw three Ships

Wednesday June 18th Lat. 1. 44 N
Long 82 14 W

This day Corn with strong SE Trades & Cloudy weather Mid. parts the same but parts the same took in the tight sails heading S. W by W Saw nothing & ends

Thursday June 19th Lat 1 33 N
Long 84 37 W

This day Strong Trades & rigged Mid parts the same but parts more moderate heading E

Friday June 20th

This day moderate Trades & Cloudy weather heading E Mid & Later parts very much the same Lat 1 40 N
Long 83.30 W

Saturday June 21st

This day Corn with fine trades Mid & Later parts moderate heading N E Commenced wetting Hole for the first time Lat 1 53 N
Long 83 06 West

Journal on Board Burt

Sunday June 22th 1856

This day Com with moderate Trades
& clear weather heading E N E Mid &
Lat part very fine. Lat 1 50 N
Long 93. 17 W

Monday June 23th

This day Com with moderate Trades
and pleasant weather Mid & Lat parts
the same at 8 o'clock A M Saw a
School of Sperm whales going to the
S W Lured the Boats Thru and Killed
three for ends this day whaling.

LB 20 30
Tuesday June 24th 1856

This day Com with fine weather
at 4 o'clock got the whales along side
hooked on and cut one of them in
Mid part one wash clearing up the
decks Lat part all hands employed in
cutting finished at 12 o'clock Lat 1 40 N
Long 94 24 W

Wednesday June 25

This day Com with brisk Trades and
clear weather heading to the S W at 2 A M
Com boiling Mid and Lat parts fine
wore Ship to E employed in boiling
Lat 49 mi N
Long 96. 08 W

Helen Snow of New Bedford

Thursday June 26th 1856

This day Corn with fine weather heading E by N Mid & Lat faster Strong Trades and rugged finished heading at 12 o'clock
Lat 54 mi N

Friday June 27th Long 96 12 W

This days Corn with Strong Trades and Cloudy weather heading E by N Mid and Lat faster the same took in the Main top gullent
Lat 1. 16 N

Saturday June 28th Long 95 21 W

This day Corn with Strong Trades and a buff Sea Mid and Lat faster the same saw lots of Birds
Lat 1 54 N
Long 94 32 W

Sunday June 29th

This day Corn with Strong Trades & Cloudy weather heading E by N Mid and Lat faster very moderate
Lat 2 16 N
Long 93 25 W

Monday June 30th

This day Corn with moderate Trades and Cloudy weather heading E by N Mid and Lat faster moderate and fine weather employed in Coopersing
Lat 2 07 N
Long 92 42

Off The Culpeppers

Tuesday July 1st 1856

This day Corn with moderate Trades
and Cloudy weather heading E Mid part
the same Lat Strong Trades Saw the Island
of Culpepper I saw two ships all hands
employed in stowing down oil in the
After hold to ends Lat 2.00

Wednesday July 2th 1856

This day Corn with moderate Trades
heading E by N Mid part the same
Lat part tacked ship to S W Saw five ships
employed in ship duty Lat 2.04 N
Long 92.00 W

Thursday July 3th

This day Corn with fine weather at
4 o'clock wore ship Mid and Lat part
moderate Saw seven ships spoke the ship
Herper of Fairbairn Stevens 24 months
out 300 bls Lat 2 15 N
Long 91 41 W

Friday July 4th

This day Corn with moderate Trades
Mid and later part the same
all hands employed in gunning
with five ships Delabrating the
forth of July

Of The Antipepper Island

Saturday July 5th 1836

This day Com with moderate Trades
and fine weather Mid and Lat parts
the same tacked Ship to the westward
Saw peccis of Squid

Lat 3 02 N
Long 92 17 W

Sunday July 6th

This day Com with fine weather
Mid and Lat parts the same at 4 o'clock
~~Saw~~ a P.M. Saw a Large bone Whale
going quick to the North Lured the boat
but without success Saw no Ships

Lat 3 08 N
Long 92 49 W

Monday July 7th 1836

This day Com with fine Trades and
Clear weather heading W S W Mid & Lat
parts fine moderate weather tacked Ship to E
Saw one Ship

Lat 2 59 N
Long 92 30 W

Tuesday July 8th

This day Com with moderate Trades
and fine Weather Mid and Lat parts
the same tacked Ship to West at
3 o'clock wore Ship to the S E
Saw nothing

Lat 3 17 N
Long 92 24 W

Journal on Board Bark

Wednesday July 9th 1856

This day Com with fine weather heading P.E. Mid & Lat's parts the same employed in mending the Fore sail

Lat 3 00 N

Long 91 39 W

Thursday July 10th

This day Com with fine Trades but cloudy weather heading P.E. & Mid parts the same Lat parts Strong Trades tacked to West employed in mending the Fore T'waile ends

Lat 2 27 N

Friday July 11th Long 89 46 W

This day Com with strong Trades and cloudy weather heading W.P.W. Mid and Lat parts the same saw Blackfish and pair of Sperm at 4 o'clock tacked Ship

Lat 2 50 N

Long 93 23 W

Saturday July 12th

This day Com with strong Trades and cloudy weather at 4 o'clock tacked to E. Mid and Lat parts fine saw two pair of Sperm

Lat 2 37 N

Long 92 31 W

Helena Snow of New Bedford

Sunday July 13th 1856

This day Cam with fine moderate
Trades and Clear weather heading E
Mid and ^{Latter} part moderate Cloudy weather

Monday July 14th 1856

This day Cam with moderate Trades and
Cloudy weather heading S^W Mid tucked
Ship to East Lat part Squally Saw a breck
Lat 2 19 N

Tuesday July 15th Long 92 18 W

This day Cam with fine Trades and
Clear weather heading E Mid and ^{Latter}
part Strong Trades at daylight Saw
the Catpeppers Island Saw a Ship
Lat 1 50 N

Wednesday July 16th Long 91 50 W

This day Cam with Strong Trades
and Cloudy weather heading S E & E
Mid and ^{Latter} part moderate
Lat 1 09 N

Thursday July 17th Long 91 16 W

This day Cam with Light and Calm
Mid part the same Lat part thick hazy
weather made Wenman Id at dusk
it bore E N E distant 5 miles

Of The Cuttpper Ids

Friday July 18th 1856

This day Com with thick hazy weather
Mid parte much the same Lat parte
fine heading W & W Low fin back

Lat 1 02 N

Saturday July 19th Long 93 25 W

This day Com with brisk Trade and
Cloudy weather heading W & W Mid
and Later parte the same at 12 o'clock
tacked Ship to E & E Lat 37 ms N
Long 94 04 W

Sunday July 20th

This day Com with Strong Trades and
Clear weather heading E & E Mid
& Later parte moderate winds &
pleasant weather Lat 37 ms N
Long 94 48 W

Monday July 21th

This day Com with light Trades
and pleasant weather heading E & E
Mid & Later parte brisk Trades
Lat 45 ms N

Tuesday July 22th Long 94 07 W

This day Com with Brisk Trades and
Cloudy weather Mid and Later parte
the same heading E Lat 54 ms N
Long 93 16 W

Cruising for Whales

Wednesday July 23th 1856

This day Com with Strong Trades and fine weather Steaming N N E Mid part by the wind Lat part Steaming N N W

Thursday July 24th 1856

This day Com with Strong Trades and Cloudy weather Steaming by the wind heading E by S Mid part the same Lat part hazy at Daylight Saw Whennans Island

Lat 1 23 N
Long 92 10 W

Friday July 25th

This day Com with light Trades and thick weather Mid part very moderate Lat part fine breeze Whennans Id bearing S W Distant 35 miles

Lat 1 42 N

Saturday July 26th Long 91 32 W

This day Com with moderate Trades & Cloudy weather heading E Mid & Lat part very much the same Saw Fimbuck's and Blackfish

Lat 1 48 N
Long 90 36 W

Buried in Shore

Sunday July 27th 1856

This day Calm with fine Trades
and cloudy weather heading E
Wind partly moderate but partly much
the same heading E by S Lat 1 44 N
Long 89 - 47 W

Monday July 28th

This day Calm with strong Trades and
cloudy weather heading E by S Strong
Trades all there 24 hours there

Lat 1. 18 N
Long 88 32 W

Tuesday July 29th

This day Calm with strong Trades
and cloudy weather heading E by S
Strong Trades all there 24 hours saw
fin birds

Lat 59 miles N
Long 87 24 W

Wednesday July 30th

This day Calm with strong Trade and
cloudy weather heading E by S Strong
trades and squally all there 24 hours though

Lat 39 miles N

Thursday July 31th

Long 86 19 W

This day Calm with strong Trades & squally
weather heading E by S Wind Lat 55 miles N
and later further the same turned Long 85 42 W

Journal on board of the Bark

Friday August 1st 1856

This day calm with strong Trades and
cloudy weather strong Trades
all these 24 hours through saw a ship

Saturday August 2nd Lat 1 mile N
Long 44 37 W

This day calm with strong Trades and
cloudy weather heading E by S Mid and
Lat parts the same spoke the Bark
Hercules Potter & saw one other Bark
at dusk reefed topmasts & tacked ship

Sunday August 3rd Lat 21 m S
Long 43 29 W

This day calm with strong Trades and
cloudy weather Mid & later parts
moderate heading W by S saw a fish

Monday August 4th

This day calm with moderate
Trades and cloudy weather Mid and
later parts the same heading W by S
at 10 employed in putting a new hunt
in to the Main topgallent sail saw
Blackfish at sunset tacked ship
to E by S

Lat 28 m S
Long 45 44 W

Steven Snow of New Bedford

Tuesday August 5th 1846

This day Com with fine moderate
Trades but cloudy weather Mid and
Later parts the same Steered N E

Lat 33 m S

Wednesday August 6th Long 46 02 W

This day Com with light Trades and
Cloudy weather Steering N E Middle part
by the wind Lat parts Steering N N E

Lat 33 m S

Thursday August 7th - Long 45 09 W

This day Com with moderate Trades
Steering N N E Mid parts Steering N
Lat parts fine Steering N N E

Lat 32 m N

Friday August 8th Long 44 59 W

This day Com with moderate Trades and
fine weather Steering N N E Mid parts
Steering E Lat parts equally Steering
N E Saw black fish

Lat 22 N

Long 44 02 W

Saturday August 9th

This day Com with fine Trades
Steering N E Mid part North Lat parts
strong breeze Steering E Saw hark and
saw the George Howland Lat 1 13 N
Steering N

Long 43 29 W

Boat in shore

Sunday August 10th 1856

Sunday This day came with strong
trades and clear weather steering E Mid
part heading S E by E. Lat part the same
saw three ships

Lat 38 m N
Long 82 44 W

Monday August 11th

This day came with fine trades but
cloudy sky steering E Mid part the same
Lat part much the same at 4 A M saw
the land stood close in to it. Saw a number
humbuck at some down kept head N W

Lat 44 m N
Long 80 24 W

Tuesday August 12

This day came with strong trades in by
the land Mid part steering to the North
Lat part heading in at 2 P M went on
shore but could get nothing saw a Bark at
anchor to Macanico called it the Perri of
Nantucket

Lat 59 m N

Wednesday August 13th 1856

This day came with strong trades
and cloudy weather heading W N W Lat part
the same at 2 P M saw a ship chasing whales the yotons
were tired for them but they were yatted we got nothing
saw one other ship

Lat 55 m N
Long 81 29 W

Of Massames

Thursday August 14th 1856

This day Comm with fine Trades but Cloudy weather Chasing whales galled by a north ship Mid part heading to the S P & Lat part fine heading N P W at dusk spoke the Superior of New Bedford Boston 34 months out 800 bbls Sperm and 300 whale at the same time spoke the Russian of New Dexter 25 months out 550 bbls Sperm Lat 126 N Long 61 22 W

Friday August 15

This day Comm with fine moderate Trades Mid and later part the same at 9 A M saw a ship Chasing whales the plank one the rest turned to windward we bore two boats but did not get near them to other ships Chasing Lat 154 N Long 61 36 W

Saturday August 16th

This day Comm with strong Trades and Cloudy weather beating to windward after galled whales Mid and later part especially saw six ships Lat 1 07 N

Sunday August 17th 1856

This day Comm with strong Trades and especially with sun rain clearing E P & Mid part under short sail heading West Lat part fine saw one ship at sunset tacked to the S P & Lat 1 09 N Long 62 02 W

Of Otumamer

Monday August 18th 1850

This day Corn with brisk Trades and
Cloudy weather heading W N W Mid parte
heading S E Lat parte Steaming N N E Saw
two Ships Lat 50 mile N
Long 40 W

Tuesday August 19th

This day Corn with fine Trades Steaming
N E Mid parte Laying aback Heading
S E Lat parte Steaming N E at 3 P M
Saw a Shute of large whales going to the
N E bored three boats and gutted them

Wednesday August 20th Lat 1.26 N
Long 81.27 W

This day Corn with fine weather
boats down chasing whales but got
nothing one boat started Mid parte Laying
aback Lat parte Steaming N E

Thursday August 21st Lat 1.24 N
Long 80.47 W

This day Corn with fine weather Steaming
N W by N Mid parte heading to the N N W
and Steaming E Lat parte Strong Trades and
Equally Steaming N N W Lat 1.52 N
Long 81.21 W

Friday August 22nd

This day Corn with Strong
Trades and Cloudy heading N N W Mid and
Lat parte ragged on different tracks
Saw 10 Ships

Journal on board Bark
Saturday August 23rd 1856

This day Com with strong Trades and
Cloudy weather heading P.E. Mid parte
the same Lat parte Steaming W.N.W. at
10 A.M. saw a ship whaling near for her
it was the Statira Burdett spoke her
she was taking her whale along side
50 lbs whale saw to other ship Lat 1.17 N
he killed 950 lbs Long 81 40

Sunday August 24th

This day Com
with strong Trades and Cloudy
weather heading N.E. N Mid parte under
shorte sail heading P.E. Lat parte Steaming
E.N.E. saw the Statira cutting her whale
Lat 1 33 N

Monday August 25th Long 80 50 W

This day Com with strong Trades and
Cloudy sky heading P.E. by the wind Alt
parte the same Lat the same at 2 P.M.
saw the F. Land and started ship saw 2 ships
Lat 1.15 N

Tuesday August 26th Long 80 36 W

This day Com with fine weather heading
W.N. Mid parte heading of and on shore
Lat parte Steaming E.N.E. saw 4 ships
employed in letting up Chocks for
water at darks close in to the shores
Lat 1 04

Helen Snow of New Bedford

Wednesday August 27th 1856

This day Com with brist traders Steaming
E by S ~~Lat~~ ~~forte~~ Mid ~~forte~~ Lurging a back
Close in to the land Lat ~~forte~~ Steaming
down for Esmeraldas at 2 o'clock went in
but got ashore on the Point but got of
again and went in very well and anchored
on the bank of the river

Thursday 28th in Forte 29th 30th 31th

Monday September 1st 1856

This day Com with Strong Traders all
ready for sea at 3 P.M. got under way
and went to sea in Comperana with
the Phikupitelanovi left in Forte the
Nortitus Dominguez, A B Tucker
Cachetot Carnetiv all Barbies

Tuesday September 2nd 1856

This day Com with Strong Traders all
Clear of the Land employed in stowing the
anchors and Chaises Mid and Later ~~forte~~
Strong Traders heading W N W
at 12 o'clock luffed ship to S E
Saw one Ship Lat 1 52 N
Long 81 04 W

Of Murmours

Wednesday September 3th 1856

This day, Com with fine weather heading S-E Mid Squally at 2 o'clock wore Ship to W N W Lat parte the same Saw the Ship Dulavoye Lat 1.31 N Long 81 09 W

Thursday September 4th

This day, Com with moderate Trades and Cloudy weather heading W N W Lat part turned to S-E Saw 3 Bks one of them Cutting Lat 1 48 N Long 81 39 W

Friday September 5th

This day, Com with moderate Trades heading S-E Mid parte Squally wore Ship. Lat parte rigged heading W employed in mending the maintopmast Saw 3 Ships wore Ship at dark Lat 1 46 N Long 82 14 W

Saturday September 6th

This day, Com with Strong Trades and a rigged heading W Mid parte heading to the S-E Lat parte Shearing & employed in washing Ship Saw too Ships Saw Logpoorer at Shorter Lat 1 48 m N Long 81 24 W

of Linnæus

Sunday September 7th 1856

This day Corn with strong Trades Steaming
N.E. Mid parte laying with the main
Topsail aback but parte Steaming N.W. Saw
three Bark one cutting and too boiling at
dark heved to aback

Lat 1 44 N
Long 81 45 W

Monday September 8th

This day Corn with brisk Trades and
fine weather Steaming N.E. Mid parte
laying aback but parte Steaming E.N.E.

Lat 2 09 N

Tuesday September 9th Long 80 52 W

This day Corn with strong Trades and Cloudy
weather Steaming E Mid parte headings
S.E. at 2 o'clock night tacked to W.N.W.
but parte separately heading S.E. saw one ship

Wednesday September 10th 1856

This day Corn with moderate Trades and
Cloudy weather Squalls of rain Mid and later
the same on different tack saw one ship

Lat 1 35 N
Long 80 52 W

Thursday September 11th

This day Corn with strong Trades and Cloudy
weather Mid parte the same heading W.N.W. but parte
strong Trades reefed the topsail. Lat 1 16 N
Saw to fin back Long 81 59 W

Journal on board Bark Helen Snow
Friday September 12th 1856

This day Corn with Strong Trades and Cloudy
weather under double reef topsails Steaming N^W
Mid part the same Lat part more
moderate at dark Spoke the Cape Horn
Pigeon of Dartmouth Adena 27 months out
750 lbs Sperm Lat 1 26 N
Long 81 39 W

Saturday September 13th

This day Corn with Strong trade and
Cloudy weather heading S^E Mid part
under Shorte Sail heading W^W Lat part S^W
Steaming & Saw one bark Lat 1 22 N
Long 81 05 W

Sunday September 14th

This day Corn with Squally weather Mid
part under Shorte Sail heading E^S Lat
part fine heading W^W Saw four Ships
Lat 1 24 N

Monday September 15th Long 81 46 W

This day Corn with fine weather heading
W^W Mid part heading S^E Lat part heading
W^W Saw one Ship Lat 1 09 N
Long 82 45 W

Tuesday September 16th

This day Corn with Strong Trades and Cloudy
weather Mid and Lat part the same at 3 P M
Spoke the Cubday of Nantucket Prov 850 lbs
300 Whale saw two other Ships

Bound in to Tombes

Wednesday September 17th 1856

This day Comm with brisk Trades and Cloudy weather
heading S E Mid and Lat parts fine Saw 3 Ships
at 4 P M Spoke the Fishery Bragdon of
New Bedford Province Lat 42 m N
Long 82 19 W

Thursday September 18th

This day Comm with moderate Trades and
Cloudy weather heading W Mid parts the
Same Lat parts pleasant tacked to S E
at 3 P M saw a whale to windward though
it was a sperm whale but did not see

Lat. 1 05 N

Friday September 19th Long 83 30 W

This day Comm with brisk Trades and
fine weather Mid and Lat parts the Same
heading S E and E by S Lat 19 m N
Long 82 28 W

Saturday September 20th

This day Comm with brisk
Trade and Cloudy weather heading S E
Mid parts the Same Lat parts hazy weather
tacked Ship to W at sunset tacked to S E

Sunday September 21st 1856

This day Comm with Strong Trades and Cloudy
weather heading W Mid and Lat parts
Strong Trades and flying on different
tracks Saw one Ship Lat 40 miles S
Long 82-03 W

Journal on board of Bark Helen

Monday September 22th 1856

This day Commences with Strong Trades
and Cloudy weather working up to Tumbes
Head and later part the same employed
in mending the Flying Jib Lat 106 S
Long 82.29 W

Tuesday September 23th

This day Comm with moderate Trades
and Cloudy weather on different tacks
Head and later part the same at 9 A.M.
Saw Fleet at Saw and fired for Humboldt
Saw two Ships

Wednesday September 24th

This day Comm with moderate and Clear
weather Head and later part the same Pointe
St. Helena in site employed in cleaning Churn

Thursday September 25th

This day Comm with moderate Trades and
Cloudy weather heading on different tacks
Head and later part the same employed in
mending the Main sail Saw one Ship Close
in with the Land

Friday September 26th

This day Comm with moderate
Trades and Thick weather Head and later
part Strong Trades and a bad Sea
on different tacks Saw one Ship

Snow of New Bedford

Saturday September 27th 1836

This day Com with strong Trades and cloudy weather heading S. E. Mid part sailed about 12 o'clock Steaming S. E. let the fire department. Standing out at 10 o'clock saw St. George Island at 7 o'clock P. M. came to anchor in Trumbull in 4 fathoms 5 ships laying at anchor 6 o'clock

28th 29th 30th

Oct 1st 2, 3, 4th

Sunday October 25th 1836

This day Com with fine weather Laying at anchor at Trumbull at 2 o'clock got under way with a fine breeze in company with the Bark Stella left two ships at Trumbull beach

Monday October 6th 1836

This day Com with fine Trades and pleasant weather heading up to Pointe Mid & later part fine saw one ship Lat 3-4 N. Long 61 3 W

Tuesday October 7th

This day Com with strong Trades heading up to Pointe Mid part very strong Trades double reefed the topsails Lat part the same saw a bark Steaming N. bound in site

Wednesday October 8th 1836

This day Com with strong Trades and hazy weather Mid and later part the Pointe heads in site Lat 4 33 S

St. Luis

Thursday 9th 1856

This day Com with moderate Trades and
hazy weather at 12 o'clock arrived at Luis
and went on Shore October 10th of 5 on
11th To 12th of and on

Monday 13th of October

This day Com with fine pleasant weather
all on board and standing out to sea with
the Bark Stella Mid & Later part moderate
wind and hazy weather at 10 AM kept off
WSW loosed twice for blackfish struck one
and the Iron Skrap parted Lat 5-20 S
Long 83 22 W

Tuesday October 14th

This day Com with moderate breezes and
hazy weather Steaming W Mid and Late part
the same saw Blackfish loosed got one saw
a brig Steaming N employed in turning down
the main Rigging Lat 5-11 S
Long 85 04 W

Wednesday Oct 15th

This day Com with moderate winds and fine
weather Steaming W Mid and Late parts
the same saw blackfish Lat 4-16 S
Long 86 31 W

Thursday Oct 16th

This day Com with fine Trades and
pleasant weather Steaming W Mid part
the same saw Blackfish Lat 3-37 S
Long 87 03 W

2 Bound for the Gallapagos Islands

Friday October 17th 1856
This day Comm with moderate Trade and fine weather Steaming N W Mid and Lat parts the same at 2 o'clock P M made Chatham Island bearing W distant 20 miles To ends

Lat 53° 55' mid S
Long 89 45 W
Saturday October 18th

This day Comm with Strong Trade & hazy weather heaving by the wind at 4 o'clock tacked Ship to the Eward at daylight tacked to S W. At 12 o'clock Closer in to Short Island at 2 P M saw a Shale of Sperm whales going N W. took the boats & killed one got him along Side at 5 o'clock To ends Lat 54° 48' S
Long 89 30 W
Sunday October 19th

This day Comm with moderate Trade and Cloudy weather boats of whaling. Mid part light winds under all sail heaving E S E with the whale along Side Lat part quite ragged at daylight Comm cutting at 11 o'clock got three and made sail to hold on at 2 P M Comm boiling

Monday October 20 1856
This day Comm fine Trade & Cloudy weather heaving E S E Middle & Lat parts Slightly at 7 A M tacked Ship to S W at 2 P M wore Ship to E Chutana bearing N distant 18 miles ~~that moderate~~ To ends this day boiling

Of Galapagos Islands

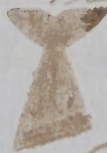
Tuesday October 21th 1850

This day Comm with Squally weather heading
E S E Mid part the same at 7 o'clock
finer at boiling but wore ship and secured
W S at 3 P M. Saw a whole of large sperm
whales going N W got in a range them with
the ship loosed the boats came near getting on
but they went to windward Chatham Is 20 miles off



Wednesday 22nd of October 1850

This day Comm with fine Trades but Cloudy
weather Chasing whales but got none Mid
part tucked in for Chatham Is but part
tucked off at 10 A M saw a whole of sperm
whales going to the N W loosed the boats but
without success Chatham Island bearing S
25 miles



Thursday 23rd of October

This day Comm with light Trades and Clear
weather Chasing whales got nothing Mid part
moderate but part fine breezes Chatham
Island bearing S W 30 miles Lat 20 South
Long 88 50 W

Friday October 24th 1850

This day Comm with strong Trades and Cloudy
weather heading E S Mid & lat part strong
winds took in the light sail Chatham Is in sight
Lat 38 m S

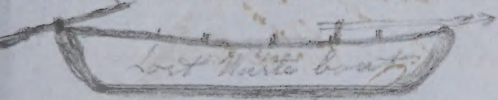
Saturday October 25th Long 88 48 W

This day Comm with strong Trades & Cloudy weather

of Gadafagos Islands.

Saturday October 25th

This day Comm Strong trades and cloudy weather Mid part the same but becoming N.W. by N. with the heavy weather saw the ship at Adams at 5 o'clock P.M. saw a shoal of Sperm whales going to the N.W. towed the boats and struck killed one to the Starboard boat the Water boat got stove & we lost her with everything belonging to her So ends whale running but



Sunday 26th of October 1856

This day Comm with Strong Trades and thick heavy weather part to the whaler not turned up at dusk Mid part rainy at 10 o'clock night got the whaler along side & made sail heading E with a slight breeze but part Strong Trades at 7 o'clock Comm cutting at 12 o'clock finished to end but 26 m S

Indefatigable in Site

Monday 27 of October

This day Comm with Strong Trades & Cloudy weather heading on different tack at 4 P.M. Comm building Mid & but part cloudy weather building heading E So ends this day

Tuesday October 28th

This day Comm with Strong Trades & Cloudy weather heading E Mid part the same got there building at 10 o'clock but part more moderate heading E employed in working on oil and painting a boat to

Lat 6 miles S Long 89 46 W

of Galapagos Islands

Wednesday October 27th 1856

This day Comm with fine weather but Cloudy
Mid but parts the same indefatigable at
bearing WSW distant 15 miles employed in
Coopering Oil to ends Lat 21 m S

Thursday October 28th

This day Comm with fine Trades but Cloudy
weather Mid parts the same heading E by S
but parts moderate all hands employed in
Stowing down oil in the fore hold Chatham
Island 15 miles of to ends

Friday October 29th 1856

This day Comm with moderate breezes and
Clear weather heading E Mid parts the same
Lat parts Strong trades Steaming N by W
Two Tower Island hoisted out & left to make
of Galton's Lat 02 m N
Long 89-25 W

Saturday November 1st 1856

This day Comm with brisk Trades and Clear
weather Steaming W N W Mid parts heading
to the Eward Lat part Steaming for Abingdon
Island at 5 P M went in with 10 boats fishing
Lat - 33 m N

Sunday November 2nd Long 90 44 W

This day Comm with fine Trades Steaming
W by N Mid and Lat parts moderate
weather Abingdon in site
Lat 50 miles N

of Galapagos Islands

Monday November 3th

This day Cam with light Trades and pleasant weather heading W by S Mid & Lat parties very moderate heading & saw Werman Island improved in washing Ship Sails
Lat 1 45 N

Tuesday November 4th

This day Cam with light Trades & thick weather Mid party the same Lat party thick & hazy at 7 AM saw a shoal of whales they preserved something & went to windward did not look for them at 12 o'clock saw some more to windward forced the boats & galled them got a new boat out So ends this day

Wednesday November 5th 1856

This day Cam with pleasant Trades & clear weather boats of in chase of whales Mid & Lat parties fine clear weather at daylight saw sperm whales forced the boats & chased all day without success Werman Island bearing N 20m

Thursday November 6th 1856

This day Cam with fine weather the boats came on board Mid & Lat parties fine smooth pleasant weather heading in for North head saw to back of the weather beam both boiling at Sun down Redonda Rock bore N E 10 miles saw lots of Fin backs employed in Ship duty So ends

[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side.]

of Gallapagos Islands

Friday November 7th 1856

This day Calm with fine moderate weather
Mid & Lat parts the same foggy saw
a ship & bark hoisting of Lee bay in employ
in sailing over an old boat to ends

Saturday November 8th

This day Calm with fine Trades but
hazy weather Mid & Lat parts much the
same stood close in to Harborough

Lat 10. m. S

Sunday November 9th

This day Calm with light Trades & hazy
weather heading of Shore Mid & Lat parts
the same close in to Harborough

Lat 16 m S

Monday November 10th Long 92 15 W

This day Calm with light Trades & clear
weather Mid & Lat parts the same at 10 AM
Spoke the Cutumba of San tiago de Cuba in
1200 Sperm 230 Whale of Lee bay to ends

Tuesday November 11 1856

This day Calm with light Trades & pleasant
weather heading in for North head Mid
parts the same Lat parts Calm
saw Blackfish saw a ship heading
Shore

of Lee Bay

Wednesday November 12th

This day Com with light Trades & Clear weather
Mid & Lat furter Cadm Saw three Ships
employed in Coaling a Spare Line of North
head Lee bay

Thursday November 13th

This day Com with light Trades and
Clear weather Steaming N^W Mid & Lat
furter fine headings W & Steaming E N E
Saw North head bearing E by S 28 miles

Lat 19 m N

Friday November 14th

This day Com with fine Trades & hazy
weather Steaming N^W Mid furter the
same Lat furter fine Steaming N E at 2
P M Saw a Crib of Sperm whales going to
windward at 3 o'clock bored the boats struck
and killed 2 and got them a longride at dark
North head bearing S E 20 miles

Lat 19 m N



WB

LB 25 bbl

25 bbl

Saturday November 15th 1856

This day Com with fine weather boats of just
to whaler Mid furter Laying about with the
whales along side Lat furter at daylight
Commenced cutting at 9 o'clock saw
more whales going quick to the East
ward bored the boats but with out
Lucies all hands employed in clearing
up decks North head in site

Lat 19 m N



of Gallapagos Islands

Sunday November 16th

This day Corn with fine weather heading
E at 5 o'clock L M down boiling Mid &
Lut parts very fine boiling all hands
employed in brubbing up Lumps North
head bearing E N E 10 miles Saw 3 Ships

Monday November 17th

This day Corn with fine pleasant weather
steaming E by N Mid parts steaming
N E by N finished boiling at 11 o'clock night
Lut parts employed in boiling bone and
put down steaming N E fired down by
Redondo Rock at dark took in Sail

Tuesday November 18th

This day Corn with Strong Trades and
hazy weather Steaming N E Mid parts by
the wind heading in for the land Lut parts
were Ship to W

Wednesday November 19th

This day Corn with Strong Trades Steaming
E N E Mid parts moderate Lut parts
Strong Trades Saw a break once saw no
more of it thingdon bearing E Lut 55 m N

Thursday November 20th

This day Corn with moderate Trades
and Clear weather Mid parts Steaming E
Lut parts by the wind at 4 P M Saw Spermac
whale 4 or 5 miles to windward did not care for
them for it was near night Lut 100 N
thingdon Bearing S 25 mib Long 90 41 W

of Gallapagos Islands

Friday November 21st

This day Corn with light Trades and Clear
not weather heading E Mid parte fine at
3 o'clock trucked to P.W. Late Commenced
breaking out in the After hole to show down
at 8 A.M. used whaler going to windward
board the boats Struck & Killed to get them
along Side at 2 o'clock & Corn Cutting got
them in at at 7 o'clock Abingdon bearing
S 8 28 miles to the Mate & Servant had some
bait work of in the boats.

SB

1 25th

WB

20th

Saturday November 22nd

This day Corn with fair Trades all hands
employed in cutting at dark got through
Mid parte parte cleaning away the
heads at 3 o'clock Corn boiling. Lat parte
moderate at 2 P.M. Saw Whales bore the
but they yulled them with the boats got
nothing. Abingdon just in sight to end

Sunday November 23rd

This day Corn with moderate Trades and
breezy weather up in Chase of whales but
got nothing. Mid parte & lat parte fine at 10
A.M. commenced boiling Saw Breaches at 2 P.M.
wore Ship to P.W. at 4 Saw them something
board the boat & yulled them but Struck and
Killed too got them along Side at 9 o'clock
Abingdon bearing S.W. 40 miles to end

SB

25th

LB 25th

off Gallapagos Islands

Monday November 24th 1858

This day Com with fine weather boats of
 put to sea whaler got them alongside at
 9 o'clock night Mid part braced feet
 heading E. Port to hold on a strong tide.
 Letting N.W. the part getting ready for cutting
 but part missed Com cutting got through
 at 11 o'clock Lat 1-27 N

Tuesday November 25th 1858

This day Com with strong Trades reefed the
 Topails at 3 o'clock on the 2^d sea around
 Com looking heading P.W. Mid part of the
 same Lat part fine at daylight wore Ship
 to the Eastward at 10 o'clock A.M. Saw a School
 of sperm whales going to the N.W. lost the
 boat. Threw three drawn from one one boat
 lanced one too one but he went off killed
 and got two to the at 11 o'clock A.M. at 1 o'clock
 P.M. Com cutting finish at 6 o'clock looking
 at the same time there is lots of whales here
 at present



W.B. 20 lbs

L.B.



Wednesday November 26th 1858

This day Com with fine weather all hand
 employed in cutting and looking on the 2^d H
 thingond in site Mid part all hands employed
 in looking and letting up Phook and
 other necessary duty no hand to day
 Lat 1-31 N
 Long 90 48 W

of Grakapaga Islands

Thursday November 27th

This day Calm with moderate Trades but Cloudy weather heading E by N. Mid & Lat parts. Cloudy weather heading E all hands employed in boiling & other duty at 2 P.M. ~~on the~~ Coaled down to 25 Casks of oil on deck. Lat 48 N

Friday November 28th Long 89 58 W

This day Calm with brisk Trades & Cloudy weather heading E. Mid part strong Trades were ship the S.W. Lat part moderate. all hands employed in stowing down oil in the After hold saw Abingdon

Saturday November 29th

This day Calm with moderate Trades heading S.W. Mid part were ship to E Lat part fine heading S.W. all hands employed in stowing down oil in the fore hold Abingdon bearing S.E. distant 45 miles. To end this day with 50 Casks of Oil on deck and Shook's water & a number of other Casks.

Lat 1-23 N

Sunday November 30th

This day Calm with fine weather heading S.W. Mid part the same Lat part strong Trades were at daylight saw Sperma whale going to the North tored the boats but not near of them came on board at 1 o'clock P.M. tored again & struck to drawed from one killed the other got him a long time at 5 o'clock. Heermann did bearing N.N.W. 18 miles. Ends

W B 30th

Of Cuthpepper Islands

Monday December 1st 1856

This day Corn with brisk Trades & hazy weather of mites wharve Apurte getting ready for cutting but put moderate cuts in the whale at 2 o'clock P.M. Corn biting Wherman Island bearing W S W 25 miles to wind setting up Pipe Shovel & boiling

Tuesday December 2nd

This day Corn with moderate Trades but a hazy atmosphere Mid & Later part the same finished boiling 2 o'clock P.M. Saw Wherman Id Lat 36 N

Wednesday December 3rd

This day Corn with moderate Trades and hazy weather heading E by S Mid & Later part the same heading E S E employed in repairing Cark & other ship duty Abingdon in Lat

Lat 38 N

Long 71 52 W

Thursday Decem 4th

This day Corn with fine Trades & clear weather heading S E Mid & Latter part fine weather tacked ship twice Abingdon bearing S W by S 40 miles employed in repairing Cark & Coopering oil

Lat 39 N

Friday Decem 5th

Long 70-14 W

This day Corn with fine weather Mid and Lat part the same on different tack employed in storing down oil in the fore hold Abingdon bearing S W 48 miles

of Galapagos Islands

Saturday December 6th 1858

This day Corn with fine Trades but a hazy atmosphere Mid & Lat parts the same employed in coopers 3 pipes of Oil Abingdon bearing
SSE 14 miles Lat 54 mid N
Long 91 08 W

Sunday December 7th

This day Corn with light Trades and fine weather heading SEW
Mid L & Lat parts fine on different tracks saw fin back the Redoubt Rock bearing
SSE 15 miles Lat 48 m N
Long 91 35 W

Monday Decem 8th

This day Corn with moderate Trades and hazy atmosphere heading SE & E Mid parts Calm Lat parts moderate Trades Chose in to the Rock backed of Sore Spoke the Vigorant of New Bedford Mc Cleave 12 1/2 months out 250 Sperm Seals

Tuesday 9th December 9th 1858

This day Corn with moderate Trades and hazy weather Mid & Lat parts the same Stowed down 3 Pipes of oil in between decks Saw North head saw the Cutwhee Seals

Wednesday Decem 10th 1858

This days Corn with moderate Trades and hazy weather Mid parts the same Lat parts Calm 3 Ships in Site North head bearing
E N E 14 miles Spoke the Leuzineum of West Portt Horton 700 Sperm Seals

of Gallapagos Island

Thursday November 11th

This day Com with fine Trades but hazy weather Steaming N^E Mid & Lat parts by the wind & Steaming N^E Saw 3 Ships at Sumate Redondo Rock bearing E 12 miles Saw finowals

Friday December 12th

This day Com with fine Trades but hazy weather Steaming N^E Mid parts laying with the main Trawl aback Lat parts Steaming E N^E Saw 2 Ships Redondo Rock E 10 miles

Saturday December 13th

This day Com with light Trades & hazy weather Steaming E N^E Mid parts Short to the rock kept of N^E Lat light wind Steaming E N^E at 10 AM Saw a breach surfed for it at 11 o'clock Saw them Spouting Sperms whose heads the boats struck & killed fore boat to & saved to get them along side at 6 o'clock PM Redondo Rock bearing S W 16 miles Aldemarle bearing E S E 20 miles



SB

20 lbs



LB

20 lbs

Saturday Decem 14th 1848

This day Com with fine Trades & clear weather boats of whaling got them at dusk Mid part Steaming E N^E and laying aback at daylight Com cutting at 10 o'clock got through Saw 2 Merchantmen Steaming to the North Saw 1 Whaler the Rock bearing S 10 miles at 2 o'clock PM Com boiling

of Galapagos Islands

Monday Decem 15th 1856

Came with strong Trades & Squally heading
of Shore at dark were ship Mid parte very strong
Trade heading in for the North parte of Aleemack
Lat parte fine boiling at 3 o'clock Saw a School of
Sperm whales close in to the land going to the
North loosed the boats struck and killed 2 got one
boat Captained the Viger sent struck & killed
one of them that had the water line got them a
long side at 10 o'clock night on the 16th of Dec
saw



LB

40 lbs



WB

20 lbs

Tuesday Decem 16th

This day Came with light weather boat of
whaling Mid parte finished boiling & got ready
for cutting Lat parte fine at daylight Came
Cuttin at 11 A M finished Redoubt
Rock bearing S 10 miles Saw a school of 10
seward boiling we Came boiling at 3 o'clock

~~Tuesday~~

Wednesday 17th 1856

This day Came with light breeze heading of
Shore with the main. to point aback Mid parte
the same Lat moderate spoke the Barke Henry
ruler of New Bedford Ever 17 months 200 lbs Sperm
Saw 4 more ships to end boiling

Thursday Wednesday 18th December

This day Came with brisk Trades and bazy weather
Mid parte the same finished boiling at 3 o'clock
night Lat parte moderate Steaming NE the
Rock bearing E by N 20 miles Saw 6 ships
employed in driving oil and rather ships duty

Cruising of Galapagos Islands

Friday Decem 19th 1856

Came with moderate Trades & fine weather
C. Steaming N. E. by E. Mid part Steaming E
Lat part fine Saw 6 Ships employed in
Coopering Oil to put down in the fore hatch
the Rock bearing S. S. W. 5 miles S. ends

Lat 20 with

Saturday Decem 20th Long 91 54 W

This day Came with moderate Trades & Clear
weather Mid part Calm & Light Lat part
fine all hands employed in Stowing down Oil
in the fore hatch the Rock bearing S. W. 15 mi
at 4 P. M. Spoke the A. R. Tucker of Tortucon
S. S. W. 10 miles S. ends

Sunday Decem 21st

This day Came with moderate Trades and
fine weather Mid & Lat part the same
Saw the A. R. Tucker Abingdon bearing
E. S. E. 18 miles S. ends this day

Monday December 22nd

This day Came with light Trades and fine weather
Mid part the same Lat part fine at daylight
Saw a ~~choate~~ school of Sperm whales going to
N. E. towed the boat struck two killed one
& drew it from one after being fast to him
one house took the whale along side
and Chased on after the whale but could
not get on boat Came on board at 3 o'clock
hooked on & cutt him in Abingdon

just in time



Of Grallapagos Islands

Tuesday December 23th 1856

This day Corn with light Trades & fine weather
bunt of bit running on board Mid parte
standing boats Crews Getting up the blubber
Lat parte fine at daylight commenced boiling
at 7 o'clock were Ship to S.W. at 9 Saw Sperm
whales going to the N.E. quite at 1 P.M. fired
for them but they were so wide that the boats
could not get on chased til run down & gave up
Lat 1-46 N
Long 91-15 W

Wednesday Dec 24th

This day Corn with fine weather bunt of
Mid parte the same boiling Lat parte the same
Colled down at 12 o'clock Saw Blackfish Boats
Lat 4-54 N

Thursday Decem 25th Long 90 42 W

This day Corn with moderate weather heading
W.S.W. Mid parte took Ship to S.W. Lat parte
moderate at 1 P.M. Saw whale of the wether bow
& milds of going to windward quick went out of
the employed in Ship duty Lat 1-36 N



Friday Decem 26th 1856

This day Corn with light Trades & thick rainy
weather heading W.S.W. Mid parte moderate
Lat parte thick squally weather heading on
different Tacks employed in Coopersing
paps of bit to stow in between decks
Lat 1-34 N
Long 91 35 W

of Wainman & Friend

Saturday December 27th 1856

This day Corn with brisk Trades & Cloudy weather leading to the S.W. Mid part the same Lat moderate heading to Wainmans Isd bearing N by E at midn employed in stowing oil in Latman's deck.

Sunday Decem 28th

This day Corn with very light Trades Mid & Lat parts the same Sur Blackbird Finches & Puffins Wainman Isd bearing N by E 18 miles

Monday December 29th

This day Corn with moderate Trades & Clear weather sailing with Wainmans Isd at midn as Mid part fine breeze Lat part moderate employed in fitting the cutting block. Wainmans Isd bearing W 20 miles Lat 1-20 N

Tuesday Decem 30th

This day Corn with moderate Trades & Clear weather Mid part the same Lat part very light at 8 A.M. Sur a Chub of sperm whales going to windward towed the boat miled them of the Starboard boat struck & got above & but time the whale went of came on board took in the boat to mend

Wednesday Decem 31th

This day Corn with light Trades & Clear weather Mid & Lat parts light winds from the S.W. with hazy weather Steaming S & mended the Starboard boat & put her out to Kingston bearing S by E 30 or 40 miles of Lat 1-20 N

of Epelapayus Island.

Thursday January 1th 1857

This day Calm with light wind, from S^W
Steering S^E Mid & Lat parties much the
Same Abingdon bearing S^E 48 miles

Friday January 2th

This day Calm with light air and Clear
weather Mid & Lat parties moderate heading
S^E by S Abingdon bearing S^E by E 35 miles

Lat 1° 01' N

Saturday January 3th Long 91° 16' W

This day Calm with fine Trades & Clear weather
Mid & Lat parties the Same Lat party Steering
N^W by W saw a Bark heading in to the Eastward
Saw Whinnans Island.

Sunday January 4th 1857

This day Calm with light weather Steering
N^W by W Mid & Lat parties fine on different
tracks saw a Bark saw no land to wind

Lat 49' N

Monday January 5th Long 91° 50' W

This day Calm with wind from S^W heading
S^E Mid party the Same Lat party brisk Trades
Abingdon bearing S^E 20 miles

Tuesday 6th of January 1857

This day Calm with light
breeze Lat party much the Same employed
in blowing down Oil in the After hold
Abingdon bearing S^E 20 miles

of Galapagos Islands

Wednesday January 2th 1857

This day Comm with light Trades & Cloudy weather. Mid parts heading S by E at daylight. Close in the Abasco. Lat parts heavy. Clear NW. Saw a Br M Steaming N

Thursday 3th Jan

This day Comm with fine weather Steaming NE. Mid parts hazy, about Lat parts Steaming NNE. Saw fin back Wherman Island bearing NE 12 miles

Friday January 4th

This days Comm with light Trades Steaming NNE. Mid & Lat parts rainy. Cut pepper Island bearing NE 8 miles

Saturday June 10th

This day Comm with light Trades & Cloudy weather Steaming NE. Mid parts the same Lat parts rainy Steaming E by N. Cut pepper Island bearing SW 20 miles

Sunday January 11th 1857

This day Comm with fine Trades but Cloudy weather Steaming E. Mid parts rainy Lat parts moderate Wherman Island bearing WSW 12 miles Lat 13 N

Monday Jan 12th

Long 91 - 30 W

This day Comm with light Trades from ESE heading S by E. Mid parts moderate Lat parts gradually heading NE at 11 A M. Saw about to windward tucked for her thought it

was a whale boat but proved to be about as
a Sloop with three men in her by the name of
William & Henrietta Bond & William Gray
had were left on Albemarle Island July 29th 1846
from Brig. Gregoria Helena of Carlos Capt
Edward Gale for the purpose of obtaining Turps
and Seal Oil after they had been there 6 months
they constructed a kind of boat and left
for Resurrection Isld in with them 40 or 50 miles
NW from Abingdon thinking they would never
arrive any where I took them on board so ends

Tuesday January 13th 1847
This day Com with squally weather Trades
variable Mid passed the same Lat parts
fine wind E S E heading N E Wainmans Isd
bearing S W 40 miles Lat 1. 49 N
Long 91 40 W

Wednesday Jan 14th
This day Com with fine Trades & Clear
weather heading N E Mid passed the same
Lat parts light wind with rain squalls.
Lat 2. 27 N

Thursday Jan 15th Long 91 50 W
This day Com with squalls from N E with
rain heading S E Mid passed wind variable
Lat fine Clear weather heading S W at 4
P M saw Spinnaker Whale going to windward
loosed the boats but it came on squally
called the boat on board took them a whale
came up close to the ship loosed to boats
the Starboard boat came very near getting
fast darted but did not hit Lat 2 27 N
at Stone slightly S E ends with rain Long 92. 15 W

of Subpeppers Islands

Friday January 16th 1857

This day Com with mine Squalor boats down
but had to come on board on a count of rain
Mid. parted Squalor heading S.W. Lat. parted
moderate heading E at 2 P.M. Saw whales
two of the wather been bored ~~the~~ boats got up
to them whales mistle to windward the
whales mistle of whom with in a quarter of
an mile but the mate would not stop for
the other boat so they both came on board
the mate is to blame To sail

Lat 2 25 N

Long 93 11 W

Saturday January 17

This day Com with moderate wind and
cloudy weather 2 boats of in chase of
whales but like the day before with out
success Mid 81 Lat parted good breeze
heading on different tack

Lat 2 12 N

Long 92 58

Sunday January 18th

This day Com with moderate Trades heading
S.W. by W Mid parted the same Lat parted brisk
Trade heading S.W. by W with a strong N.W.
tide

Lat 2 08 N

Monday January 19th Long 94 58 W

This day Com with moderate Trades heading
E by S Mid & Lat parted moderate heading
to the East. Saw Black fish over board
on it for water & can't get out of this
place

Lat 2 05 N

Long 93 58 W

Tuesday January 20th 1857
This day Calm with very light Trades & Clear
weather heading E by S. Mid parts the same but
just a little more wind with a very heavy
swell from the N^W Lat 148 N
Long 93-30 W

Wednesday January 21st
This day Calm with moderate Trades heading
E by S. Mid & Lat parts very much the
same heading E S E at 4 P.M. Saw Whinn
Island bearing E N E 24 miles Lat 1 14 N
Long 92 20 W

Thursday January 22nd
This day Calm with moderate Trades and
Clear weather heading E S E Mid parts steering
E S E with the same Whinn Is bearing
N N W 30 miles Saw Thringdon & Alchemar
Set the Fore Topmast Standing Sail
Lat 1 02 N

Friday January 23rd Long 92 15 W
This day Calm with light Trades & Clearing
E 1/2 N Mid parts wind from E S E Lat parts light
wind from S S E heading E & very pleasant Saw Whinn
Lat 1.32 N
Saturday Jan 24th Long 91 15 W

This day Calm with light Trades heading E.
Mid & Lat parts wind very light
heading E N E bound in after water and
Mould but we make very slow progress
the wind being very light

Lat 1 41 N
Long 91 12 W

9

Journal on Board Bark Helen Snow
Sunday January 25th 1859

This day calm with very light Trades and
Clear weather heading $\text{C}^{\text{S}}\text{E}$ Mid & Lat parts
very much the same Lat 2 23 N
Long 91 02 W

Monday Jan 26th

This day calm with very light Trades heading
 N^{E} by E Mid & Lat parts calm Lat 2 41 N
Long 91 05 W

Tuesday Jan 27th

This day calm with calm weather Mid
& Lat parts light winds from the S W Steaming
 $\text{C}^{\text{S}}\text{E}$ Lat 2 28 N

Wednesday Jan 28th Long 90 - 30

This day calm with light winds from S W
at 3 P M wind from West Steaming $\text{C}^{\text{S}}\text{E}$
Set the Fore Top-sail standing reef
Middle & Lat parts wind variable Steaming $\text{C}^{\text{S}}\text{E}$
Lat 1 49 N

Thursday Jan 29

Long 89 45 W

This day calm with light winds from S W Steaming
 $\text{C}^{\text{S}}\text{E}$ Mid & Lat parts wind variable with
sudden squalls of rain Lat 1 24 N
Long 89 - 48 W

Friday Jan 30th

This day calm with squalls from the North
Mid & parts wind variable with squalls of rain

Saturday Jan 31th 1859

This day calm with squally weather & variable
winds Mid & Lat parts the same heading
& most of the time Lat 1 04 N
Long 89 - 08 W

Bound in to Fort

Sunday February 1st 1857

This day calm with light air & squalls of rain
Mid part light air & calm Lat. part wind from
E N E heading S E a very strong current to N W
Lat 1 13 N

Monday Feb 2nd

Long 89 33 W

This day calm with light winds from E N E
heading S E Mid & Lat parts light air and
calm employed in mending the fore sail
Lat. 1 03 N

Tuesday Feb 3rd

Long 89 50 W

This day calm with calm weather Mid part
the same Lat part like breeze from E S E heading
N E a great many strong tide rips Lat. 1-43 N
Long 89 43 W

Wednesday Feb 4th

This day calm with very light winds from E
Mid & Lat parts very light air & lapping
ropes employed in making Reys for there absence
of water in for we are short of water
Lat 2 16 N

Thursday Feb 5th

Long 89 26 W

This day calm with light air from the North
Mid & Lat parts light winds from S E
Trying hard to get in
Lat. 2 27 N

Long 89 44 W

Friday February 6th

This day calm with light winds from S E
heading E N E Mid part a fine breeze from
the E S E headings N E Lat part very moderate
headings N E and E N E
I think the tide is setting
to the N E
Lat. 2 51 N
Long 88 49 W

Burned in to Port

Saturday February 7th 1857

This day calm with light air and clear hot weather heading N^E Mid & Lat parts light air from the S^W & steering E^SE against a strong current to day put all hands on allowance of water 3 quarts per day to each man Lat 3-06 N

Long 89 15 W

Sunday Febua 8th

This day calm with light air from S^SW steering E^SE but going to the westward Middle & Lat parts wind very light & variable with thunder Lat 3 13 N

Long 89 17 W

Monday February 9th

This day calm with light air and variable steering E Middle & Lat parts very much the same Lat 3-30 N

Tuesday Febua 10

Long 89 17 W

This day calm with very moderate weather wind from S^E heading E^NE Middle & Lat parts Calm & light air & variable Lat 4 01

Long 89 40

Wednesday Feb 11th

This day calm with the wind from S^E to N^NE Worked ship twice Mid & Lat parts buffing winds & Calm heading on different tacks had some signals of rain Lat 348 N

Thursday February 12th Long 89 40 W

This day calm with buffing winds Mid & Lat parts Calm with rain squalls put Charles Wether in Irons for his abusive language to me he threatened to shoot me he is a bad

Lat 3.36 N

old fellow to say the best of him

Long 90 20

Friday February 13th 1887

This day Calm with Calm & light variable winds
& large swell from the N.W. Middle & Lat parts
very much the same with some signs of rain
Lat 2-44 N

Saturday Feb 14th

This day Calm with air from E heading S.E. but
making western very fast there being a strong
tide Mid parts strong breeze from E.S.E. heading
S Lat parts the same Lat 2-40 N
Long 92-05 W

Sunday Feb 15th

This day Calm with moderate winds from E.S.E.
heading S Mid & Lat parts very much the same
Lat 2-07 N

Monday Feb 16th Long 93-06 W

This day Calm with light air from E & Calm
heading S.E. Mid parts Calm Lat parts
light breeze E.S.E. heading S Strong westerly tide
Lat 2-03 N

Tuesday Feb 17th Long 94-04 W

This day Calm with light winds from E.S.E. heading
S Mid parts Calm Lat parts light air from
S.E. heading E a N.W. current we are trying
hard to get to the South Lat 2-11 N

Long 94-20 W

Wednesday Feb 18th

This day Calm with light air from S.E.
Mid parts very light air from the westward
steaming S.E. and S by E. Lat don't make
anything to the South Lat 2-16 N
Long 94-33 W

Trying to get in to port

Thursday February 19th 1857

This day came with light winds from
W^{SW} steering S by E Mid & Lat parts
The same the tide has slackened I think

Lat 1 30 N

Friday Feb 20th Long 94 39 W

This day came with very light airs from
W^{SW} Mid & Lat parts Calm & light
airs from W^{SW} to S^{SW} wore to South after
black tide setting to S^E

Lat 1 56 m N

Long 94 11 W

Saturday Feb 21st

This day came with very light airs from
the S^{SW} heading S^E Mid & Lat parts the
same strong tide setting to the Eastward

Lat 32 m N

Sunday Feb 22nd Long 93 22 W

This day came with very light winds from
W^{SW} heading S Mid & Lat parts Calm

Lat 38 m N

Monday Feb 23rd Long 93 38 W

This day came with moderate winds from
W heading S^{SW} Mid & Lat parts wind
S^{SW} heading S by S

Lat 5 m N

Long 93 - 02 W

Tuesday Feb 24th

This day came with light airs from S^{SW} heading
S by S Mid & Lat parts Calm

Galapagos Islands bearing

6 30 m N

Lat 13 m S

Long 92 - 45 W

of Galapagos Islands

Wednesday February 25th 1857

At 6 This day Calm a strong tide setting to the East Harbourn 3rd bearing E 15 miles
Saw black fish tored for them got one

Lat 15 m S

Thursday Febua 26th Long 91 57 W

This day Calm with light breeze from the west W.S.W heading S Spoke the Galondy of New Bedford Wharland 21 months out
300 bbls Saw the Leaguesan boiling South head bearing S E 30 miles

Lat 38 mi S

Long 91 53 W

Friday Febua 27th

This day Calm with light breeze from S.W heading S E Mid parte wind W N by S Steaming S.W by S Squalls of rain Lat parte Wind N.W at daylight Saw whales going to the Eastward Lored the boats galled them put run Verdyris on the 4th bows to kill the worms

Lat 1. 20 S

Long 91 56 W

Saturday Feb 28th

This day Calm with very light winds from W Steaming S by W Mid and Larter very much the same Lored and East too black fish South head in

Lat 1 31 S

Long 92-10 W

Journal

Sunday March 1st 1857

This day calm with calm weather
Mid part the same but part a fine breeze
from N^o E Steaming S E & Lat 2 10 S
Long 91 59 W

Monday March 2nd

This day calm with fine breezes from
N^o E Steaming S S E Mid & Lat parts the
same boiled out the Blackfoot Lat 3 27 S

Tuesday March 3rd

This day calm with very light air and calm
Mid part calm Lat part wind from
S E heading S S W with a large swell from
S E Lat 3 52 S
Long 91 26 W

Wednesday March 4th

This day calm with variable winds heading
N^o E Mid part strong breeze from E S E
with sun rain heading S Lat part
heading S by W at 10 A M turned to N^o E
Lat 4 15 S

Thursday March 5th

This day calm with variable winds & cloudy
weather Mid & Lat parts calm & light
air heading to the South Lat 5 19 S
Long 92 01 W

Friday March 6th

This day calm with light winds from E S E
and clear weather heading S Mid part heading
N^o E Lat part strong winds from
S E with squalls of rain heading to N^o E

Saturday March 7th 1857
This day Corn with strong winds from
S.E. with rain heading E.N.E Mid part
moderate winds & variable but part strong
winds from S.E. heading E.S.E

Lat 5-20 S

Sunday March 8th Long 90 35 W
This day Corn with strong winds from
S.E. heading E.N.E Mid & later parts
wind variable for heading on different tracks

Monday March 9th 1857
This day Corn with light winds from the
E.S.E and cloudy weather Mid & later
parts wind variable heading on different
tracks

Lat 5-20 S

Tuesday March 10th Long 88 40 W
This day Corn with light winds from the
N.N.E heading E Mid & later parts winds
and buffin heading to the Eastward

Lat 5-40 S

Wednesday Mar 11th Long 87-57 W
This day Corn with light air from S.E.
and cloudy weather Mid & later parts fine
breezes heading S.E. & N.E

Lat 5-48 S

Long 87 18 W

Thursday March 12th
This day Corn with brisk breezes from E heading
S.E Mid & later parts brisk breezes
headings N.E

Lat 5-15 S

Long 86 28 W

Journal on board B Helen Snow

Friday March 13th 1857

This day calm with brisk Trades from
E S E and clear weather heading N E
Mid parte tacked to S S E Lat parte wind
from E heading N N E tacked to S S E

Lat 4 38 S

Saturday March 14th Long 86 14 W

This day calm with moderate Trades from
E to E N E heading S S E & S E Mid & Lat
parte light winds from E S E heading N E
Spoke the Bark Catalpa of New Bedford Snow
& month out 100 bbls Sp

Lat 5 08 S

Long 85 46 W

Sunday March 15th

This day calm with light winds from E S E
and clear weather heading N E Mid parte
calm Lat parte light winds heading N E

Monday March 16th 1857

This day calm with winds from E
tacked Ship to S S E Mid parte the same
at 3 o'clock night tacked to N E Lat parte
strong Trades heading N E

Lat 4 48 S

Long 84 54 W

Tuesday March 17th 1857

This day calm with brisk Trades from E S E
heading N E Mid & Lat parts the
same came in to green water

Lat 3 54 S

Long 84 08 W

Bound in to Port

Wednesday March 14th 1857

This day Calm with fine Trades but hazy
weather heading N^E by E. Strong Tides N^W
Mid & Lnt parts very light winds from
S^E & heading E. Lat 34° 3' S
Long 83° 30' W

Thursday March 15th

This day Calm with light Trades from S^E &
heading E. Mid parts Calm Lnt parts
light Trades heading E. Lat 35° 0' S
Long 82° 40' W

Friday March 20th

This day Calm with light Trades and hazy
atmosphere heading E. Mid parts Strong Trades
Lnt parts more moderate Steaming E. N^E
At 4 P. M. made Cape Blanco Lat 34° 3' S

Saturday March 21st Long 81° 30' W

This day Calm with moderate Trades &
fine weather Steaming E. by N. Mid parts
sailing aback Lat Calm Saw two Sails
Lat 35° 2'

Sunday March 22nd 1857

This day Calm with light wind, Steaming
N^E & Mid parts Calm Lnt parts light air
from the North at dark Trades from
bearing N^E by E 10 miles Lat 34° 1'
at sunset

Monday March 23rd 1857

This day Calm with moderate Trades
running down along the land Mid parts
light winds and Calm At 10 o'clock anchored off
the old point Lnt parts at 10 P. M. took our anchor
came down to the river & got of a raft of water

Journal on board Bark Helen Snow

Tuesday March 24th 1857

Laying at anchor at Tumber for wood & Water and other Recruits Discharged the mate and 7 men & Put 2 of them that I picked up on shore
March 25th 26th 27th 28th 29th

Monday March 30th 1857

This day Calm with fine weather
Laying at ~~anch~~ anchor all ready for sea
the Arab Gills sailed to day at 6 P M
got underway Mid part heading
W N W Lat part tacked to the South
Lat 3 34 S

Tuesday March 31st 1857

This day Calm with light winds from the
W S W heading S Mid part Calm
Lat part fine breeze heading S employed in
Ship's duty Lat 3 34 S

Wednesday April 1st 1857

This day Calm with fine breeze from S W
heading S S E land 10 miles off West Lat part
strong Trades heading on different tacks employed
in washing ship working up to Port

Left New Bedford Mass for Boston Mass to
join Bark Luallow. Capt. B. B. Cleveland for
voyage 1 to 2 years in Indian Ocean.
Desolation Island 950 miles of coast of
South Africa for seal elephants and
sperm whales. Bark Luallow large ship
square rigged fore & main. Sailed from
Wharf 3 o'clock Wed. A.M. March, 1896.
Was 16 years old. Anfull sick. Haff crew
drunk. Capt. wanted me for Cabin Boy I
refused. Outside we ran in to an anfull
storm. Everything furred and sick taking
water. Next day sea smother and going
down. Set to work learning ropes. wheel.
furling etc. Log watch between 4. & 6. P.M.
after all hands get through washing down.
Put in after 3 weeks runs to Cape St Verde
Islands. Shipped 12 barrels almost naked
Had to learn them. 1st Mate and I had
fight on deck. Capt. put me in irons on
roof 2 hours. I was in Starboard Watch.
3 more weeks of bad weather bad grub
and bad treatment dropped anchor in
harbor Desolation island.



OS Correct altitude	49-12		23 00 08
Latitude	1-44 N		<u>1 51</u>
Polar distance	66-58		23 01 59
Sum	<u>117-54</u>	P. Dis	<u>90 00 00</u>
Half Sum	58-57		66-58 01
Altitude	49-12		
Remainder	<u>9-45</u>		

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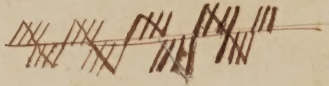
Logarithms
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Apparent time of observation

2.28.09
 Equation of time 2.50
 2.25.19

Chronometer time 8.31.46
 Longitude in by Chron 8.06.27
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 41 36 03

Whate II

Thee Bart Helen Snow has Seen
Whate 

from October 1844 to
Sen Whaler This Season

XXXIX

1845

Manifert
Jung mit
Biber LC Mung

This image shows a page of cursive handwriting practice on aged, yellowed paper. The page is numbered '390' in the top left corner. The handwriting is written in brown ink and consists of large, flowing loops and flourishes. The letters are highly stylized, with long, sweeping strokes that create a sense of movement and grace. The ink is a rich brown color, and the paper has a slightly textured appearance with some minor discoloration and foxing. The overall composition is dynamic and artistic, typical of a calligraphic exercise.

